

The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools K3HS. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$24 U.S. first class mail, \$27 Canada/Mexico airmail, and \$30 by airmail elsewhere for 12 issues. Payments may be made to k6fv through PayPal. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4554 USA. My Internet address is victor.frank@sri.com. My web site is <http://www.qsl.net/k6fv>. The bulletin may be freely quoted, provided that credit is given.

Sorry We're Late!

Can't blame it on the number of reports (about 1300 this month), way down. It was the end of class and finals week at San Francisco State University where your editor, not being able to land a teaching position this school year, decided he'd "brush up" on some Physics courses he took first about 45 years ago. They "brushed" him up! Most of what he was taught in a graduate level Quantum Mechanics course then, is now taught in undergraduate Modern Physics. Plus, he has forgotten a lot.

One of our readers suggested that you, our readers, might like to find out what our founder is doing, and so I have a letter from him.

K6QXY's new EME array, which we published last month, inspired an analysis of EME antenna pointing which may be of interest to those of you in the western states still lacking a QSL card (TF3T) or 2-way QSO with Europe.

For those of you who may contemplate DXpeditions, here's my advice: For the winter, the tropics are much more pleasant than the poles. The poles are more hospitable in their (local) summer. And finally, consider the disadvantages of tropical storms if you're thinking of some tropical isle, and desert heat if summer is your season.

DX Operations

Most of the listings in this column came from SM7AED's notebook and OZ6OM's Daily DX.

Somalia, 6O0N: A group of Italian radio amateurs plan to be active on all bands including 6m for two weeks starting around January 20.

Cambodia, XU7ADI: Pete, SM5GMZ, will be back in Thailand (January 5-March?) and Cambodia (HS0ZFI) (Dec 5-31), and hopes to operate all bands including 6m.

Tanzania, 5H1CM: Hans, DL7CM, will be vacationing with his XYL on Zanzibar from November 11 to December 18. In his spare time he hopes to be active on 160-6m.

Democratic Republic of Congo, 9Q: Gus, SM5DIC, is here until the end of the year and plans to operate with the club call 9Q0AR in his spare time. He expects to be licensed to operate as 9Q1D and soon to be QRV on 6m and digital modes.

Jan Mayen, JX9NOA: is QRV, but indicates propagation is poor now. He plans to stay there until October 2006.

Svalbard, JW4GHA: Roger, LA4GHA, currently active as T98GHA until the end of November plans to operate 160-2m from Bear Island (EU-027) between December 1 and June 2006.

Alaska, KL7: K6MYC and W6JKV plan to operate 6 and 2m EME from Barrow (BQ13), which is the northernmost city in Alaska next late June/July.

USA, grid EN67, K9MU: Justin plans 6 and 2m operation from EN67AL from December 29-January 3. What's special about EN67?, you wonder. Look on a map, it's mostly water with a small tip of the northernmost point in the state of Michigan.

Mexico, XF3NN: Radio Club Cancun will be active on 160-6m from Carmen Is. (NA-135) December 16-18.

Ascension Is (AF-003), ZD8I: Ian, G8WVW with his family are new residents until the end of March 2006. He plans 80-6m activity. Occasional visits to the Falkland Is. are also a possibility.

Peter I Island (Antarctica), 3Y0X: Although we don't have a date for this 9-station DXpedition (probably some two-week period between January 16 and the end of February 2006) we did learn that Gordon, W0RUN, is testing the 6m EME station they will be taking. It will be using the JT65A mode. Note one advantage of a near polar QTH is the long period the moon stays at nearly the same elevation angle. The quietest parts of the sky, however, are in the northern celestial hemisphere.

Micronesia, V63O: Nao, JK1FNL plans 80-6m operation from Pohnpei (OC-010) on December 28-31.

Ogasawara Is., JD1BLX, JD1BLY: plan operation from Chichijima (AS-031)(QL17CB) from February 19 to 18.

Sprattly Islands, DX0A: Target dates for a DXpedition to the Philippine Kalayaan Island are now January 5-19. In addition to operation on the low bands, they plan WSJT operation on 6m EME.

Beacon News

Argentina, LU1WDY: is a new beacon on 50.071 MHz from Patagonia, FE76IS. It runs 5W to a 1/2 wave ground plane at 10 mtrs height. Reports to lambdataller@yahoo.com.ar

Italy, IW3FZQ: on 50.001.3 has moved to Monselice, JN55VF, and now has a 5/8 wave ground plane.

Madeira, CQ3SIX: should be QRV soon on 50.035 MHz with 10W,

South Africa, ZS6TWB: (50.044 MHz) is off the air. The site has been sold. ZS6NK will advise if and when the beacon will be restored.

Letter from our founder

Hello again. I was surprised last week to receive the 50 MHz DX Bulletin from you. I didn't realize it was still going strong . . . hi!

I am no longer "active" on ham radio. Yes, I read QST, CQ, and WorldRadio, but I no longer have a strong desire to get back on the air. Part of that is because I am temporarily living in an apartment since I sold my home two years ago. Secondly, the sunspots have most of the upper bands in a funk. I spend my "Radio Time" broadcast band DXing and Sandbagging the ham bands with my Grundig Satellite 800. At this time I am just content with listening. I guess 29 years of heavy contesting (HF+VHF) plus a dozen DXpeditions thrown in for good measure have burned me out.

On a personal note, I just retired as a traffic/expressway sergeant in the Philadelphia Police Dept. after 24 years and am now working at the Traffic Control Center for PENDOT in the Philadelphia region as a traffic control technician. I am 48 years old and still single . . . how about that?

If I decide to get involved in 6 meter DXing again once I purchase another home, I'll be sure to subscribe. Thanks again for the sample copy. I am going to forward it to a fellow police officer who is a ham and has an interest in 6 meters.

Harry Schools, K3HS

The Aurora Mailing List

Friends,

Today I want to inform you about the past and future of this mail list.

I started this list 5 years ago because I thought it would be a good forum for all interested in aurora (radio hams and aurora watchers/photographers) to discuss anything related to aurora. At the time I was getting a lot of questions about real time aurora monitoring and space weather forecasting because of my Aurora Sentry web site. I thought a free public forum would be interesting to discuss these things.

The last 5 years have shown there is very little interest in such a forum. At the present time we have 127 members here, but almost never any post to the list. Even during very intense and widespread aurora there is no discussion taking place here. I have to ask myself: Does this list serve any useful purpose? I think the answer is no.

Meanwhile, many things have occurred in my life. It is time now to make some changes. In January, 2006, I will be closing down my personal web site and Aurora Sentry. All email addresses associated with my n1bug.net domain will be discontinued also.

That leaves only one question: what to do about this forum? If some one of you wants to take over ownership and all administrative functions of running this forum, you are welcome to do so. In that case, please contact me privately. I will work with you and Freelists staff to transfer list ownership. (I have not really asked Freelists if this is possible, but I think there must be some way to do that). **BE WARNED** before you volunteer: you will receive some "spam" email as a result of being named owner/administrator of this list. While Freelists makes every attempt to prevent spam on the lists, it is too easy for any potential spammer to guess that every Freelists list has a [listname]-administrator@freelists.org address associated with it. You will also receive several bounced messages every day because some spammer tried to spam the list itself. These messages never reach the list, but a bounce notification is sent to the list owner.

Or, maybe some one wants to start a new aurora forum, hosted at some other place. That is fine too! If there is no volunteer to take ownership of this forum before January 9, I will ask Freelists to terminate this forum. In that

case it will simply cease to exist.

I sincerely apologize for any inconvenience. If this were an active forum I would not just shut it down. However, all this has been doing for a long time is taking up valuable resources at Freelists and generating worthless bounce messages.

Comments and concerns are welcome. You may contact me directly:

pkelley@n1bug.net

Paul, N1BUG

European Windows for 6m EME

Has the prospect of designing, building, and maintaining a large fully-steerable array for 6m EME held you back? Of course, the "really-big" stations like W7GJ, K6QXY, and K6MYC have found ways to overcome this hurdle and will be able to work stations all over the world using the JT65A digital mode. Did you notice how high in elevation that K6QXY's array was pointed in last month's photo?

What follows are some ideas for those of us somewhat less mechanically inclined who would like to pick up a few European countries via EME. There are a number of European stations who could work EME with their antennas aimed at the horizon. They are able to pick up as much as 6 dB gain (over free space) at certain elevation angles, depending on the height of their antennas over ground. The first figure (on the next page) shows two curves of this horizon gain for two antenna heights, 3 wavelengths (about 59') solid and 2 wavelengths (about 39') dashed. The curves assume horizontal polarization and a perfect flat reflector. The first lobe for the higher antenna has substantial gain between 3° and 6° elevation angle.

I have plotted on the second figure (a map) the location where the moon is directly overhead in the western hemisphere for near moonset (5° elevation) for four European 6m stations: G4IGO, F6FHP, SM7BAE, and LY2BAW. Not plotted is a curve for Osaka, Japan which reaches -120.91° E. longitude at 27.83° N. latitude and slopes to the SW. Stations in much of Central America could work the European stations with an antenna pointed nearly straight up.

Recall that the directivity of a uniformly-illuminated aperture is $D = 12.57/\text{the aperture in square wavelengths}$. That's about 11 dBi for an square aperture 1 wavelength on a side, 17 dB for a square aperture 2 wavelengths on a side, etc. Also recall that the half-power beamwidth of a uniformly-illuminated rectangular aperture is $51^\circ/\text{the side length in wavelengths}$; e.g., 26° for a 2 wavelength side.

Remember the planar array of dipoles at Huancayo Peru? You could build an array a square km in size (if you had access to the land) but only a couple meters high, but you don't need that much gain and don't want that much directivity to work EME on JT65A.

Presently the moon does not get directly overhead at latitude 30° . You may recall that the earth is tilted 23.445° to the ecliptic, which means the sun appears overhead at that latitude (N in late June, S in late December). The moon's orbit is inclined 5.145° to the ecliptic and so some years rises only to 18.30° and other years to 28.59° . In late 2005 it is on the upswing, reaching 28.36° .

But I'm not in Mexico, you say. Let's say you're at latitude 38° . Do you have a large area of land with southern exposure with a slope of 10° or more in that direction? Build along the slope. That will take care of the latitude for the European moon window. I propose steering in longitude only, using a phased array approach to make construction less complicated. You could have a N-S dimension of 4 wavelengths and still cover most of the latitudes of interest. (In general the galactic noise behind the moon is less in the Northern hemisphere than in the Southern hemisphere).

Figure 1

At six meters, most of the energy radiated at angles of 25° and above is not reflected or refracted by the ionosphere to anywhere useful. Raising your antenna to 60' from 40' can improve its low angle performance by 3 dB, but can result in a null between 8° and 10°. (That wiggle at -3dB is an artifact of the smoothing used in the plot program.)

Gain of horizontal dipole over perfect ground

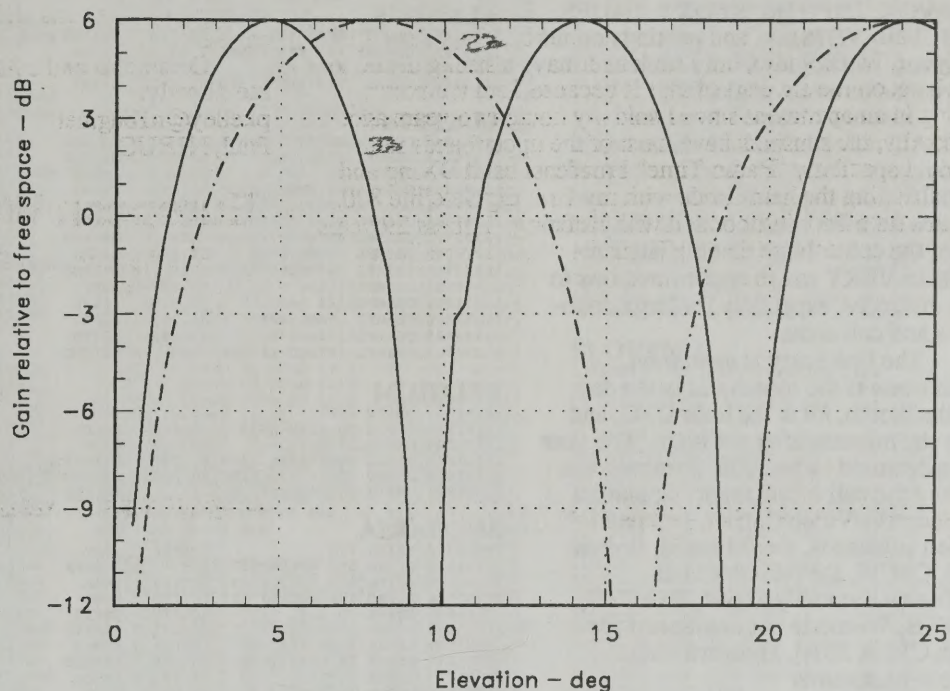
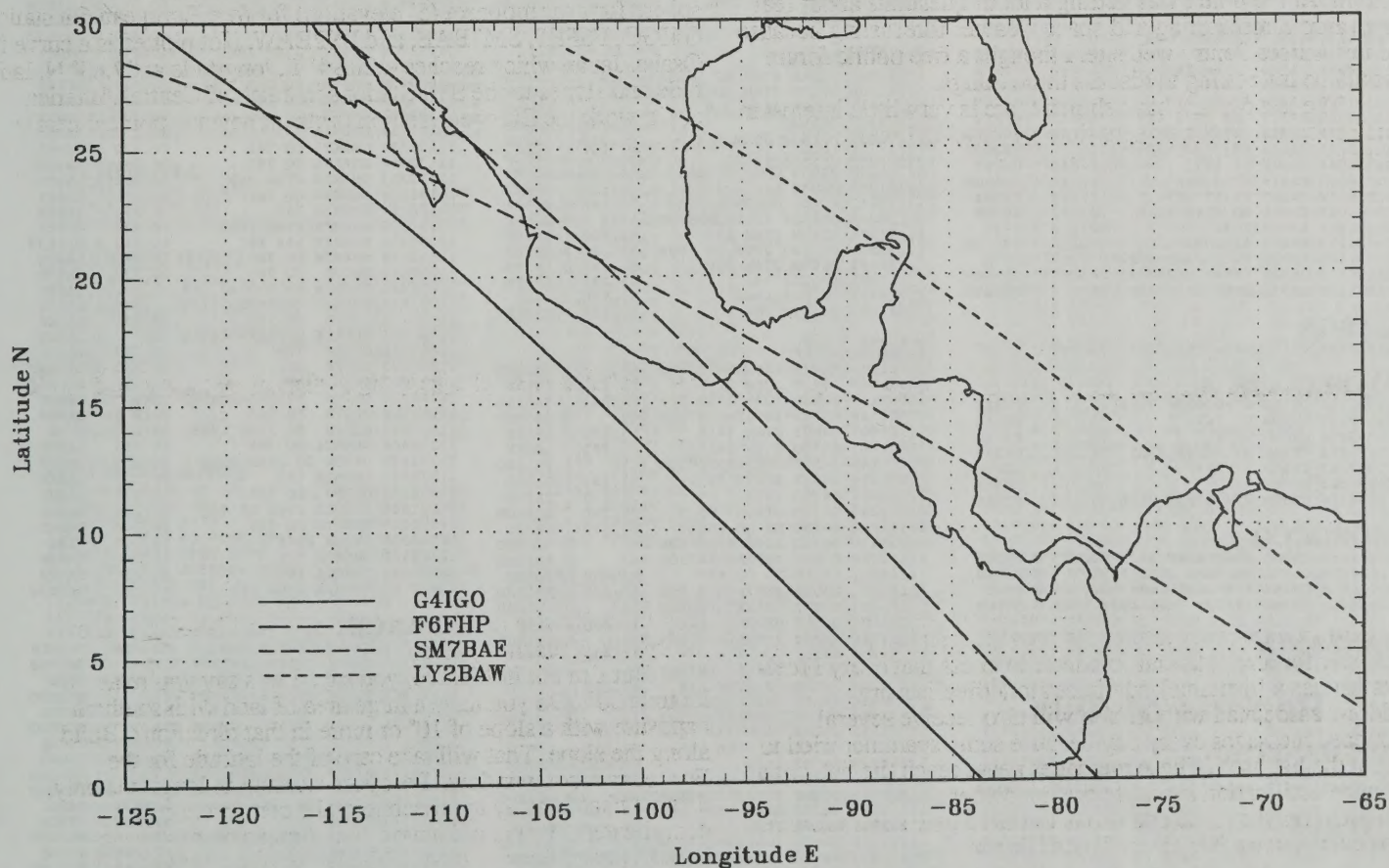


Fig. 2 Map of where the moon is overhead when it is at 5° elevation angle for various European EME stations.



November 2005 DX Reports

The following reports of 50 MHz DX propagation are courtesy of JA1VOK, JH1WHS, K6QXY, G4UPS, W5UWB, VE7SKA, and postings on the Internet. Apologies to any sources I may have inadvertently neglected.

Listings obtained from the OH2AQ reflector include distances in kilometers. These are determined preferentially from the grids in the post, and otherwise from one or both of the prefixes of the calls. Note that the latter results in VERY rough approximations to the distances, especially for large countries and call areas.

The first entry is *mmddhhii*, where *mm* is the month, *dd* is the day of the month, *hh* is the hour UTC, and *ii* is the minutes after the hour. The year is understood to be 2005. Symbols just before the call of the reporting station include: V=Video Carrier, I=inband video sidebands, F=FM audio, B=beacon, C=CW, D=Telemetry Data, J=Digital, typically JT6M, R=RTTY, S=SSB, W=mode not mentioned (or both CW & SSB), H=heard only. BSc = backscatter.

Reports of Africa

CANARY IS.

11052257	EH8BPX	IL28>GI64	5101	.110	PR8ZX
11062200	EH8BPX	7193		50.110	PY1NB
11062212	EH8BPX	55>GF49	7484	50.120	PY3KN

CEUTA & MELILLA

11051130	EA9IB	26/26	1621	50.227	ON4IQ
11060958	EA9IB	JT6M	1675	50.227	G4PCI
11131011	EA9IB	1675		50.230	J GOCHE
11131018	EA9IB	1675		50.230	J G4IGO
11131022	EA9IB	S9	1675	50.230	G4PCI
11131030	EA9IB	JT6M	2007	50.230	J GW3ORL
11131040	EA9IB	59+ IM85>JN47	1766		HB9SJE
11131041	EA9IB	55	1675	50.110	G4PCI
11131043	EA9IB	JT6M	555	50.230	EA5AGR
11131048	EA9IB	51-52	1394	50.110	F6GEX
11131058	EA9IB	CQ	JT6M 1675	50.230	GOCHE
11131116	EA9IB	1394		50.110	F9IE
11131119	EA9IB	53>JN35	1501	50.110	I2IEPM
11131120	EA9IB	59 IM85NG>J022PG	1997		PF7M
11151513	EA9IB	IM88>IM85	7392	50.230	EA5AGR
12031104	EA9IB	IM85NG>IN73DM	948		EB1EHO

GABON

11022139	TR0A	429	JJ40	7841	50.049	B FM5JC
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MADEIRA IS.

11062124	CT3BD	57>GG53QW	7416	50.115	PP5XX
11062207	CT3BD	CQ	7672	50.110	PP5AR
11062210	CT3BD	7672		50.110	PY1NB
11062213	CT3BD	57 >GF49	7961	50.110	PY3KN
11062243	CT3BD	57	7672	50.115	ZZ2TUA
11062325	CT3BD	57		50.110	PP5XX
11092124	CT3BD	57>GG53QW	7416	50.115	PP5XX

MOROCCO

11021634	CN8MC	WEAK>GF49	8771	50.027	B PY3KN
11051816	CN8MC	VY WEAK	GF49 8771		B PY3KN
11131033	CN8MC	559>JN26	1480	50.027	B F8OP
11161451	CN8MC	IN/OUT	IM63>IN96	1531	B F5TND

TANZANIA

11081951	5H1HS	CQ		50.120	9A7V
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Reports of Asia

AFGHANISTAN

11030646	TX6	28	444	50.110	EY8MM
11030647	TX6	4226		50.110	RW3AH

CYPRUS

11040646	5B8AD	FB		50.110	EZ8CQ
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UNITED ARAB EMIRATES

11040733	A61Q	FB		50.110	EZ8CQ
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JAPAN

11240013	JR6EXN	FB	EME	9820	50.022	G4IGO
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Reports of Europe

ALAND IS.

11101805	OH0AZ	WEAK	658	50.146	SM1TDE
11101813	OH0JFP	559	KP00>JN65	1713	S57RR
11101840	OH0AZ	WEAK	658	50.161	SM1TDE
11101909	OH0AZ	559>JN65	1713	50.160	S57RR

AUSTRIA

11011051	OESMPL	JN78CJ>IN73DM	1626	H	EB1EHO
11070918	OESMPL	JT6M	980	50.228	J OZ1DDJ
11120849	OESMPL	CQ	1496	50.230	LA8NK
11181831	OESMPL	CQ	JT6M 1491	50.230	GOCHE
11181832	OESMPL	JT6M	1491	50.230	G4PCI
11181833	OESMPL	SIDE	SCATTER	1496	LA8NK
11200922	OESMPL	JN78CJ>IN73DM	1626	H	EB1EHO
11211002	OESMPL	15SC	1491	50.225	GOGMS
11220824	OESMPL	JN78CJ>IN73DM	1626	H	EB1EHO
11260825	OESMPL	111		50.230	J S59F
11271037	OESMPL	228	1496	50.230	LA8NK
11271936	OESMPL	JT6M	1491	50.230	G4PCI
11280820	OESMPL	JT6M	1491	50.230	G3UYM
11290843	OESMPL	JN78CJ>IN73DM	1626	H	EB1EHO

BELGIUM

11051132	ON4IQ	1621		50.227	J EA9IB
11121219	ON4IQ	CQ	JT6M 1922	50.230	GOCHE
11121245	ON4IQ	1779		50.230	PF7M
11121252	ON4IQ	J020>IM99	1309	50.230	EA5AAJ
11131412	ON4PU	J021>IN73	1194	50.230	EB1EHO
11200951	ON4IQ	J020AR>IN73DM	1087		EB1EHO

BULGARIA

11060748	LZ4KK	774		50.230	S59F	
11101123	LZ1JH	599	KN22>JN67	1093	B DL3LFA	
11101126	LZ1KG	579	KN31CS	933	50.110	9A8A
11101136	LZ1MC	579	KN22TJ	853	50.105	9A8A
11181931	LZ4KK	CQ	1161	50.230	ON4TQ	
11191031	LZ4KK	JT6M	1474	50.230	J W3SNU	
12021741	LZ4KK	JT6M	1491	50.230	J HB9QQ	
12021817	LZ4KK	59	JT6M 1474	50.230	IK2GSO	
12031617	LZ4KK	26	1491	50.230	H HB9QQ	
12041048	LZ4KK	CQ	774	50.230	S59F	
12041114	LZ4KK	369		50.230	YO3BL	

CRETE

11101151	SV9SIX	579	KM25>JN67	1662	B DL3LFA
12021723	SV9SIX	519	KM25NH>J080TK	1813	SP6MLK

CROATIA

11131140	9A1Z	599	1681	50.230	EA5AGR
11270834	9A1Z	1364		50.230	J OZ1DDJ

DENMARK

11041953	OZ3RE	JT6M	MS J055EJ	1045	GOCHE	
11042006	OZ3RE	JT6M	J055>JN39	719	LX3DX	
11050741	OZ3RE	JT6M	719	50.230	LX3DX	
11060856	OZ1DJJ			50.230	LA8NK	
11070930	OZ1DJJ	JT6M	719	50.222	LX3DX	
11101028	OZ7IGY	1086		50.021	B POPOQ	
11101830	OZ0AZ	CQ	JN565	1120	50.146	H S57RR
11101843	OZ9KY	52	1578	50.150	OW7CL	
11102041	OZ2LD	CQ	JN65	1120	50.196	H S57RR
11120918	OZ1DJJ	HELLSCHREIBER	1086		W GOCHE	
11172304	OZ6OM	JT6M	555	50.230	LA8NK	
11190847	OZ1DJJ	JT6M	MS 1086	50.227	J Y3UYM	
11221448	OZ6OM	JT6M	880	50.230	LA8NK	
11251823	OZ1DJJ	555		50.230	LA8NK	
11270835	OZ1DJJ	1364		50.230	J 9A1Z	
12041028	OZ1DJJ	944		50.222	ES3BR	

ENGLAND

11051045	MOFXH	I091NM>IN73DM	960	H	EB1EHO
11051801	G4PCI	JT6M	1202	50.230	H SM5LE
11061157	GOCHE	I071>I090	301	50.235	GW6TEO
11081528	MOFXH	I091NM>IN73DM	960	H	EB1EHO
11101907	G4PCI	JT6M	1412	50.230	J LA8NK
11102207	G4IGO	JT6M	1412	50.220	J LA8NK
11111859	G4DEZ	J003AE>IN73DM	1154	J	EB1EHO
11131014	GOCHE	KEVIN	1675	50.230	EA9IB
11131020	G4IGO	1675		50.230	EA9IB
11131237	G4IGO	JT65M	MS	50.230	J EA5AGR
11131331	G4IGO	BS	MS 1922	50.230	ON4TQ
11131334	G4IGO	I080NW>IN73DM	851	H	EB1EHO
11131428	GOCHE	I090PS>IN73DM	889	H	EB1EHO
11140931	G4IGO	26	CQ 859	50.230	HB9QQ
11161011	G3UYM	I081>IN73	909	50.230	H EB1EHO
11161237	GOGMS	I082XT>IN73DM	1067	H	EB1EHO
11161529	G4PCI	GEORGE	1533	50.230	J S59F
11161554	G4PCI	I091AL>IN73DM	928	H	EB1EHO
11161936	G4PCI	CQ	1412	50.230	LA8NK
11172116	G1SDX	I080FJ>IN73DM	781	H	EB1EHO
11172236	G1SDX	CQ	JT6M 813	50.230	F5TND
11190905	G31IZ	I092>IN73	1057	50.230	H EB1EHO
11190906	GOCHE	I090PS>IN73DM	889	H	EB1EHO
11200933	GOGMS	TROP>MS	1412	50.233	J LA8NK
11201122	GOCHE	CQ	JT6M 1922	50.230	ON4TQ
11202058	G4IGO	1412		50.230	LA8NK
11202112	G4IGO	JT6M	MS 1412	50.230	J LA8NK
11210941	GOGMS	I082XT>IN73DM	1067	H	EB1EHO
11212242	G4IGO	BEAM	EAST 1412	50.230	H LA8NK
11212311	G4IGO	JT6M	1202	50.230	J SM5LE
11221115	G3UYM	I091UW>IN73DM	1018	H	EB1EHO
11221904	GXTVHF	J001>J048	929	50.230	LA8NK
11222009	GXTVHF	J001>IN73DM	1064	H	EB1EHO
11222129	G4DEZ	CQ	434	50.140	H EB1EHO
11222214	G4IGO	JT6M	927	50.230	J IO1HOC

11230957	G3UYM	I091UW>IN73DM	1018		EB1EHO
11231904	G4PCI	CQ	1412	50.230	LA8NK
11231956	G4PCI	I091AL>IN73DM	928		EB1EHO
11232017	G1SDX	I080FJ>IN73DM	781		EB1EHO
11232145	G4IGO	1412		50.230	LA8NK
11251404	G4IGO	1412		50.230	LA8NK
11252213	G7HEJ	1412		50.230	LA8NK
11252249	G7HEJ	I083LT>J048KM	902	J	LA8NK
11261216	G1SDX	JT65A	TROP	50.250	J GOCHE
11261256	GOCHE	15 - IONO	813	50.234	J F6FHP
11261346	GOCHE	CQ	1412	50.230	LA8NK
11261836	G4IGO	BIG	BURST 1412	50.230	LA8NK
11261910	G4PCI	1412		50.230	LA8NK
11261943	G4DEZ	J003AE>IN73DM	1154		EB1EHO
11262049	G4PCI	I091AL>IN73DM	928		EB1EHO
11270853	GOGMS	CQ	1412	50.230	LA8NK
11271034	GOCHE	CQ	1412	50.230	LA8NK
11271036	GOGMS	CQ	1412	50.230	LA8NK
11271544	G4DEZ	1533		50.230	J S59F
11271943	G4PCI	I091AL>			

12031101 F6FHP IN73DM>IN94TR 446 EB1EHO
12031111 F5LNU JN04JV>IN73DM 539 H EB1EHO

GERMANY

11101135 DL3LFA WKG LZ1KG 1149 .131 9A8A

GREECE

11101139 SVISIX 589 JO90HF 1317 .040 B SP9LCV
11101143 SVISIX 589 KM17>JN67 1378 B DL3LFA

ICELAND

11031821 TF3SIX 559 2102 50.058 B SM3NRY
11031944 TF3SIX 559 AE 2102 50.056 B SM3GSK

IRELAND

11231510 EI6IZ 529 IO53HU 262 50.042 B EI7BMB
11231858 EI6IZ 419 MS>579 460 50.052 B G0JHC
11281841 EI2IP >JN54 1671 50.130 H IW4BET

ISLE OF MAN

11151438 GD0TEP IO74SD>IN73DM 1184 EB1EHO
11222056 GD3MYD/P 464 50.125 G4PCI
11222126 GD3YUM/P IO74 464 50.125 G7HEJ
11242006 GD0TEP IO74SD>JO48KM 952 LA8NK

ITALY

11051635 IK2GSO CQ JT6M 927 50.230 G0CHE
11101710 IQ6VP JN62QG 624 50.150 S57RR
11101759 IK2ZUL 549 TR JN65>JN52 467 B S57RR
11130903 IZ5GOL JT6M MS 927 50.230 J G0CHE
11131136 IK2GSO JT6M 927 50.230 J EA5AGR
11131413 IK5RPL 25DB MS 2SEC 934 H DK2EA
11131416 IK5RPL 55 JN52>JO80 1000 H SP6MLK
11141622 IK2GSO JN45NP>IN73DM 1196 EB1EHO
11151847 IK1PAG JN35B>IN73DM 1067 EB1EHO
11171955 IW3SNU JT6M 791 50.230 PA2V
11191042 IW3SNU CQ JT6M 927 50.230 G0CHE
11191057 IW3SNU JN65OT>IN73DM 1513 H EB1EHO
11191148 IW3SNU JT6M JOHN 791 50.230 PA5JS
11200907 IW3SNU 59 TR JT6M 791 .230 H PA5JS
11201044 IW3SNU JT6M JN65>IO82 1397 J G0GMS
11222028 IK1EGC CQ 1688 50.230 LA8NK
11222117 IO1HOC JT6M MS IN73DM 1030 H EB1EHO
11222218 IO1HOC 927 50.230 G4IGO
11222308 IW1AZJ 927 50.230 G4IGO
11231009 IO1HOC 41126 JN35>IN73 1030 EB1EHO
11262100 IK1EGC CQ JT6M 927 50.230 G0CHE
11262120 IK1EGC CQ 1688 50.230 LA8NK
11281725 IZ2GOL JN45>IO82 1168 .235 J G0GMS
11291726 IK2GSO MS 927 50.230 J G4IGO
11301820 IK2GSO JN45NP>IN73DM 1196 H EB1EHO
12021062 IK2SUL >IO92 971 50.020 B G0PQO
12021065 IK5EUV JN53>IO92 1337 .145 G0PQO
12021621 IK5RPL NOISE LEV 927 50.164 G0PQO
12021624 IK4DCX JN64GI>IO83LB 1492 GW8ASD
12021637 IW4BET JN54Q>IO83LB 1418 GW8ASD
12021647 ISSYUJ SSJ 1688 50.134 LA8NK

JAN MAYEN

11031810 JX7SIX 54A 1978 50.079 B SM0LOB
11031919 JX7SIX 579 >IO75 1678 .079 B MM0AMW
11031926 JX7SIX 579>JO55 1928 50.079 B OZ1BNN
11032209 JX7SIX 579>IO75 1678 50.079 B MM0AMW
11242308 JX7SIX 539>IO75 1678 50.079 B MM0AMW

LITHUANIA

11172237 LY3UM CQ 991 50.230 LA8NK
11232144 LY3UM 991 50.230 LA8NK
12030801 LYOSIX KO24>IO90 1803 .063 B G3W2T

LUXEMBOURG

11011528 LXOSIX 429 523 50.023 B DK2EA
11042055 LX3DX 1248 50.230 LA8NK
11051034 LX2SM CQ JT6M 722 50.230 G4PCI
11170744 LX3DX CQ JT6M 361 50.230 PE1MZS
11181024 LX1SIX 549 >JO30BU 443 .022 B DL8PM
11181650 LX3DX CQ 1248 50.230 LA8NK

MACEDONIA

11181957 Z38C 1015 50.220 H ON4IQ
12022015 Z38C 2005 50.100 OH1XX

NETHERLANDS

11051808 PEIPE CQ 961 50.230 LA8NK
11060911 PASBS 961 50.230 LA8NK
11121247 PF4M 1779 50.230 ON4IQ
11131047 PF7M CQ JT6M 596 50.230 G0CHE
11131351 PF7M JT6M 1779 50.230 ON5PU
11131358 PF7M JO22PG>IN73DM 1269 EB1EHO
11151915 PA5JS 961 50.230 LA8NK
11162017 PE1MZS CQ JT6M 596 50.230 G0CHE
11171904 PA5JS CQ JT6M 361 50.230 LX3DX
11172131 PA5JS JO21>IN73 1194 H EB1EHO
11182139 PA5JS JO21>IN73 1194 EB1EHO
11191136 PA5JS CQ JT6M 596 50.230 G4PCI
11191147 PA5JS JT6M 791 50.230 J IW3SNU
11191256 PA5JS J3 1244 50.230 H 9A1Z
11200750 PA5JS JT6M 791 50.230 J IK2GSO
11200847 PA5JS CQ 961 50.230 LA8NK
11200901 PA5JS JT6M 961 50.230 J LA8NK
11200935 PA5JS 55 JO21>IN73 1194 EB1EHO
11211901 PA5JS CQ JT6M 596 50.230 G4PCI
11211928 PA5JS MS 596 50.230 J G4IGO
11221902 PA5JS JO21>JO48 818 50.230 LA8NK
11231839 PA5JS CQ 961 50.230 LA8NK
11232050 PF7M JO22PG>IN73DM 1269 EB1EHO
11301047 PI7SIX 519 JO22NC>JO30BU 155B DL8PM
11301834 PA5JS CQ 961 50.230 LA8NK
12030817 PA5JS ES KP02 1458 50.230 OH6KTL
12030825 PA5JS 1505 50.230 H OH1JCS

12030931 PA5JS CQ 961 50.230 LA8NK
12031025 PA5JS JO21>IN73 1194 50.230 H EB1EHO
12040935 PA5JS JO21>IN73 1194 50.230 H EB1EHO
12041003 PA5JS 1458 50.230 ES3BR

NORWAY

11031742 LA8NK JO48KM 418 50.100 SM1TDE
11031751 LA7VH 57A 568 50.097 SM0LOB
11031753 LA8NK W/ LA7VH AU 568 .094 SM1TDE
11031755 LA7VH AU 50.093 C LA8NK
11031756 LA7VH 1218 50.093 SP2NBH
11031802 LA7SIX BOOMING 568 50.051 B SM0LOB
11031811 LA8NK 56A 568 50.098 SM1TDE
11031959 LA5TFA JP99>KO24 1694 .135 LY3UM
11032211 LA7SIX 559 1036 50.051 B MM0AMW
11051731 LA8NK CQ JT6M 1412 50.230 G4PCI
11051835 LA8NK JT6M TOR 961 50.234 J PE2PE
11052019 LA8NK TOR 765 50.239 OH6KTL
11061039 LA8NK CQ JT6M 1412 50.230 G4PCI
11092006 LA8NK CQ JT6M 1412 50.230 G4PCI
11092050 LA8NK 765 50.230 OH6UW
11101856 LA8NK CQ JT6M 1412 50.230 G4PCI
11102033 LA4AFA MS 1412 50.230 G4IGO
11102202 LA8NK MS 1412 50.220 G4IGO
11112008 LA4AFA CQ JT6M 1412 50.230 G4PCI
11121611 LA8NK JT6M MS 1412 50.230 J G0CHE
11141612 LA8NK JT6M 1412 50.230 G4PCI
11151631 LA8NK CQ JT6M 1412 50.230 G4PCI
11151905 LA8NK JT6M CQ 1412 50.230 G4PCI
11162113 LA8NK CQ JT6M 1412 50.230 G4PCI
11181819 LA8NK CQ JT6M 1412 50.230 G4PCI
11192042 LA8NK JT6M MS 1412 50.230 J G4PCI
11222014 LA8NK >JN35 50.230 H K1EGC
11222030 LA8NK CQ JT6M 1412 50.230 G4PCI
11222102 LAOFA JO59>JO48 159 50.230 LA8NK
11231852 LA8NK CQ JT6M 1412 50.230 G4PCI
11232042 LA8NK JT6M CQ 1412 50.230 G4PCI
11232056 LA7AJ CQ JT6M 1412 50.230 G4PCI
11251359 LA8NK JP81NG 684 50.230 SM3BEI
11251432 LA8NK 568 50.230 SM3BEI
11261753 LAOFA 50.230 J LA8NK
11261918 LA7AJ FB MS 1412 50.230 J G4IGO
11262031 LA8NK CQ JT6M 1412 50.230 G4PCI
11270822 LA7AJ JO59>IO82 1163 J G0GMS
11271300 LA7AJ CQ 50.230 LA8NK
11271355 LA7AJ JT6M 568 50.230 SM0LOB
11271505 LA7AJ CQ JT6M 1412 50.230 G4PCI
11271810 LAOFA CQ JT6M 1412 50.230 G4PCI
11271912 LA8NK CQ JT6M 1412 50.230 G4PCI
11281908 LA8NK CQ JT6M 1412 50.230 G4PCI
11282053 LAOFA CQ JT6M 1412 50.230 G4PCI
12031102 LA8NK JT6M MS 1412 50.230 J G0CHE
12032137 LA8NK CQ JT6M 1412 50.230 G4PCI
12041038 LA8NK 784 50.222 ES3BR

POLAND

11060830 SP9HWY CQ 1218 50.230 LA8NK
11060831 SP9HWY JT6M MS 1550 50.230 G3UYM
11061103 SP9HWY CQ JT6M 1550 50.220 G4PCI
11101943 SP9HWY CQ 1218 50.230 LA8NK
11102047 SP9HWY JUREK 1218 50.225 LA8NK
11121546 SP9HWY JT6M MS 1550 50.230 J G0CHE
11130802 SP9HWY JERYZ 468 50.230 S59F
11130848 SP9HWY JT6M 1049 50.235 J IZ2GOL
11131419 SP6MLK STAN 1049 50.158 IK5RPL
11131750 SP9HWY CQ JT6M 1550 50.230 G0CHE
11132035 SP9HWY 1218 50.230 LA8NK
11142125 SP9HWY CQ 1218 50.230 LA8NK
11150400 SP6GWB Stan JT65 EME 50.202 J K6QXY
11190746 SP9HWY JT6M 1550 50.230 J G4PCI
11191012 SP9HWY JT6M MS 1550 50.220 J G0CHE
11200904 SP9HWY CQ JT6M 1550 50.223 G3UYM
11201105 SP9HWY MS 992 50.230 J PA2V
11201327 SP9HWY CQ JT6M 1550 50.230 G4PCI
11221210 SP9HWY 223 RRR 834 .223 9A1Z
11221813 SP9HWY JO90>JO48 1096 .230 LA8NK
11232012 SP9HWY CQ 1218 50.230 LA8NK
11232049 SP9HWY CQ JT6M 1550 50.230 G4PCI
11251712 SQ9HWY CQ MS 1550 50.230 G4IGO
11251713 SP9HWY 1550 50.230 G4IGO
11251845 SP9HWY JT6M 685 50.230 J SM5LE
11261349 SP9HWY CQ 1218 50.230 LA8NK
11261551 SP9HWY 1218 50.230 LAOFA
11262107 SP9HWY CQ JT6M 1550 50.230 G0CHE
11262109 SP9HWY CQ G51KR 11008 .230 PP5AR
11262138 SP9HWY MS 1550 50.220 J G4IGO
11271010 SP9HWY JERYZ 992 50.230 J PA5JS
11281748 SP9HWY JUREK JO90>TO82 1532 G0GMS
12012147 SP9HWY CQ JT6M 685 50.230 H SM5LE
12021752 SP9HWY CQ 1218 50.230 LA8NK
12031810 SP9HWY CQ 1218 50.230 LA8NK
12041013 SP9HWY 1070 50.230 ES3BR
12041042 SP9HWY JT6M 1550 50.230 G4PCI

ROMANIA

11070942 YO7VS MS DIETER 796 50.228 J OE5MPL
11072232 YO7VS JT6M 1483 50.230 J SM5LE
11080803 YO7VS JT6M 1579 50.228 J OZ1DJJ
11130950 YOKWJ KN35 1544 50.075 B HB9QQ
11141142 YO4BZC 57>JN16 1849 50.110 F4ARJ
11161713 YO7LXT JT6M 1554 50.220 J IW3SNU
11212114 YO7VS 10 DB JN86F 976 .230 J 9A1Z
12021651 YOKWJ S38 KN35FC 1512 .075 B HB9QQ
12021654 YO9ETR S9 KN25XG 1469 .051 HB9QQ

SARDINIA

11021235 ISOUVL VY WEAK S G3HBR
11121038 ISOUVL 1097 50.150 OE5MPL

SCOTLAND

11011806 GB3LER 44A IO88KI 267 .064 B MM5AJW
11031655 GB3LER 53A>IO75 603 50.064 B MM0AMW
11031916 GB3LER 599>JP99 1360 50.064 B LA7SF
11032314 GM4TLS 55A 50.100 MM0AMW

11042040 GM4WAJ CQ JT6M 925 50.230 G0CHE
11042151 GM4WAJ JT6M 1036 50.237 J LA8NK
11051814 GM4WAJ 4 2135 925 50.230 J
11101042 GB3LER >IO92 889 50.064 B G0PCI
11132039 GM4WAJ 1036 50.230 LA8NK
11152331 GB3LER IP90>IN96 1556 .064 B F5TND
11161729 GB3LER 555 IP90>IN96 1713 B F5TND
11191700 GB3LER 52A>IO75 603 50.064 B MM0AMW
11200944 GM4WAJ FB 2744 50.230 J ON4IQ
11201011 GM4WAJ CQ JT6M 925 50.230 G4PCI
11201014 GM4WAJ IO87MN>IN73DM 1572 H EB1EHO
11201021 GM4WAJ 37 REFL 1629 50.230 HB9QQ
11222059 GM4NEC 925 50.130 G4PCI
11251941 GM4WAJ CQ MS 925 50.230 G4IGO
11270953 GM4WAJ CQ 1036 50.230 LA8NK
11271917 GM4WAJ CQ JT6M 925 50.230 G4PCI
11272243 GM4WAJ IO87>JN35 1499 .230 IK1EGC
11281749 GM7PBB 59 IO68>IN94 1609 F6FHP
11281757 GB3RMM 559>IN94 1471 50.060 B F6FHP
11281805 GM7PBB IO68UM>IN73DM 1668 EB1EHO
11281836 MMOCWJ IO67HC>IN73DM 1514 EB1EHO
11281837 GM4WAJ CQ 1656 50.130 F6FHP
11282131 GM4WAJ CQ JT6M 925 50.230 G4PCI
11292300 GB3LER 53A 404 50.064 B MM0AMW
12012311 GB3LER 54A 404 50.064 B MM0AMW
12021642 GM4NEC 57 ALEX 1726 50.164 IK5RLP
12032216 GM4WAJ CQ 1036 50.230 LA8NK

SLOVENIA

11010847 S59F JN65TX>IN73DM 1546 H EB1EHO
11060844 S59F CQ 1604 50.230 LA8NK
11011855 S57RR 549/559 536 50.160 DK2EA
11102016 S57RR 1038 50.147 W SM3BEI
11130852 S59F JT6M IVO 1533 50.230 J G0CHE
11130955 S59F IOWM MS 1533 50.230 J G4IGO
11161505 S59F JN65TX>IN73DM 1546 H EB1EHO
11161520 S59F CQ JT6M 1533 50.230 G4PCI
11161906 S59F CQ JT6M 1533 50.230 G4PCI
11171506 S59F CQ JT6M 1533 50.230 G3UYM
11171531 S59F CQ JT6M 1091 50.230 H PE1MZS
11171609 S59F JT6M 1091 50.230 J PA2V
11171616 S59F CQ JT6M 1533 50.230 G4PCI
11172233 S59F PING 2.4 S 650 50.220 Z38C
11181835 S59F CQ JT6M 1533 50.230 G4PCI
11201140 S57RR 59 779 50.150 IK4JPR
11221754 S59F JN65TX>IN73DM 50.230 EB1EHO
11271038 S59F 227 1604 50.230 LA8NK
11271520 S59F CQ JT6M 1533 50.230 G0CHE
11271540 S59F JT6M IVO 1533 50.230 J G0CHE
11271547 S59F 1533 50.230 G4DEZ
11281744 S59F JN65TX>IN73DM 1546 H EB1EHO

SPAIN

11010928 EB1EHO 1887 50.230 J S59F
11031004 EA3AXV ES41ONO 1915 50.230 OE5MPL
11041850 EA3AXV JT6M JN01 1004 .230 LX3DX
11041854 EA3AXV CQ 555 50.230 CN8LI
11041906 EA3AXV 1887 50.230 W S59F
11050573 EA3AXV JT6M JN01 1004 .230 LX3DX
11051610 EA3AXV JT6M W/GM4WAJ 1122 G0CHE
11051833 EA3AXV CQ JT6M 1122 50.230 G0CHE
11051935 EA3AXV 983 50.230 FLF5H
11060841 EA3AXV CQ 2479 50.230 LA8NK
11060903 EA3AXV JT6M 1121 50.230 IZKBD
11060905 EA3AXV CQ JT6M 1122 50.230 G4PCI
11060909 EA3AXV 983 50.230 FLF5H
11060916 EA3AXV JT6M FB REFL 1534 J PA5JS
11060937 EA3AXV JT6M FB 1534 50.230 PF7M
11061004 EA3AXV 555 50.227 EA9TB
11061147 EA3AXV JN01>IO71 1201 .230 GW6TEO
11071349 EB1EHO CQ JT6M 1122 50.230 G0CHE
11071935 EB1EHO CQ JT6M 1122 50.230 G4PCI
11081145 EA3AXV IN73DM>JN01TJ 645 H EB1EHO
11091808 EB1EHO CQ JT6M 1122 50.230 G4PCI
11111836 EA3AXV CQ JT6M 1122 50.230 G0CHE
11120942 EA3AXV IONO 1915 50.230 OE5MPL
11120946 EA3AXV CONTINUOUS 1122 .230 G0CHE
11121205 EA5AAJ JT6M MS 1122 50.235 J G0CHE
11121237 EA5AAJ JT6M FB 1587 50.230 ON4IQ
11130956 EH4EED >JN35 1121 50.110 H K1EGC
11131001 EH4AYW 54 >JO50UF 1688 .110 H DK2EA
11131002 EH4EED 59 IM68>JN64 1788 IZ4GWE
11131005 EH4EED 59>JN53OQ 1380 .130 IZ5EUV
11131012 EH4EED IM68>JO50 1944 .130 DK2EA
11131013 EH4EED 51 983 50.130 F4TTR
11131054 EASAGR 55 ES >JN86FJ 1844 9A1Z
11131138 EASAGR 599 ES4MS 1681 .230 9A1Z
11131233 EASAGR CQ JT6M 1122 50.230 G4PCI
11131448 EB1EHO FB MS 1122 50.230 J G4IGO
11131411 EB1EHO FB JT6M 1587 50.230 ON5PU
11141510 EA3AXV IN73DM>JN01TJ 645 H EB1EHO
11141650 EA3AXV 11DB 1681 50.230 H 9A1Z
11141932 EB1EHO NICE REFS 1260 .230 EI7BMB
11141939 EB1EHO CQ JT6M 1122 50.230 G4PCI
11150444 EA3AXV Qim JT65 EME 50.202 J K6QXY
11151502 EASAGR MS 555 50.230 EA9TB
11151519 EB1EHO 1887 50.230 J S59F
11161619 EAIGAR CQ JT6M 1122 50.230 G4PCI
11161623 EAIGAR IN73DM>IN51NW 312 H EB1EHO
11161911 EB1EHO CQ JT6M 1122 50.230 G0CHE
11162034 EA3AXV CQ JT6M 1122 50.230 G4PCI
11170955 EB1EHO CQ JT6M 1122 50.230 G3UYM
11172146 EB1EHO IN73DM>JO21TF 1237 PA5JS
11180844 EB1EHO CQ JT6M 1122 50.230 G3UYM
11201041 EB1EHO CQ JT6M 1122 50.230 G4PCI
11221141 EB1EHO JT6M MS 1122 50.230 J G3UYM
11221608 EB1EHO CQ JT6M 1122 50.230 G4PCI
11231100 EB1EHO 7 DB 1121 50.230 IO1HOC
11231949 EB1EHO CQ JT6M 1122 50.230 G4PCI
11262041 EB1EHO CQ JT6M 1122 50.230 G4PCI
11272014 EB1EHO CQ JT6M 1122 50.230 G4PCI
11281759 EB1EHO 41/51 1260 50.140 EI7BMB
11301837 EB1EHO CQ JT6M 1122 50.230 G4PCI
12021604 EA7DUD IN73DM>IM76SR 762 EB1EHO
12021845 EB1EHO JT6M 2479 50.230 J LA8NK
12022231 EB1EHO LUIS 1122 50.230 J G0GMS

12030939 EA7DUD ES & SSB 1887 50.230 J S59F
12031028 EA7DUD J76M ES 1122 50.230 GOCHE
12031033 EA7DUD 55/55 1122 50.210 S GOCHE
12031057 EA7DUD J76M MS 1122 50.230 H GOCHE
12041006 EB1EHO CQ J76M 1122 50.230 G4PCI
12041014 EA7DUD IM76>IO82 1785 50.230 J GOGMS
12041021 EA7DUD 1887 50.230 S59F

SVALBARD

11031732 JW9SIX 55A 2385 50.048 B SM0LOB
11031734 JW7SIX 53A 2385 50.047 B SM0LOB
11031758 JW5SIX 53A 2385 50.046 B SM0LOB
11031914 JW7SIX 559 2353 50.047 B MM5AJW
11092133 JW5SIX 539 2385 50.046 B SM0KAK
11092142 JW9SIX 529 2385 50.049 B SM0KAK
11102037 JW7SIX 539 2385 50.048 B SM0KAK
11102038 JW9SIX 589 2385 50.049 B SM0KAK
11102106 JW9SIX 539 2385 50.049 B SM0KAK
11302106 JW9SIX 519>JO48KM 2095 .049 B LA8NK

SWEDEN

11031748 SM0LOB VY STRONG AU JO89XK SM1TDE
11031759 SM1TDE CQ AU 50.100 SM0LOB
11031921 SM6ONH 519 568 50.095 H LA7SP
11032015 SM6ONH AU 568 50.095 LA8NK
11042206 SM5LE CQ J76M 568 50.230 LA8NK
11051811 SM5LE CQ J76M 1202 50.230 G4PCI
11052129 SM5LE J76M 1202 50.230 G4PCI
11101809 SM3BEI WEAK JO81NG 543 .133 SM1TDE
11101847 SM0V JO89UL 523 50.160 SM1TDE
11101950 SM7VXS 55>JN65 1111 50.179 S57RR
11102015 SM3BEI 559 >JN65 1111 .148 S57RR
11151855 SM5LE CQ 568 50.230 LA8NK
11171830 SM5LE CQ J76M 780 50.230 LX3DX
11181043 SM5LE CQ J76M 780 50.230 LX3DX
11190814 SM3BIU IONO -26DB 50.216 GM4TSM
11191119 SM0LOB FB REFL. 619 50.230 PA5JS
11212239 SM5LE 568 50.230 LA8NK
11221825 SM5LE JO99>JO48 582 50.230 LA8NK
11251401 SM3BEI FB MS 1202 50.230 J G4IGO
11251429 SM3BEI J76M 568 50.230 J LA8NK
11260912 SM3BEI J76M>JN35 1188 .230 H IK1EGC
11260948 SM3BEI J76M MS 1202 50.235 J GOCHE
11261134 SM3BEI NICE BURST 1341 .230 9A1Z
12030836 SM6NZV 26/R26 J76M 619 .230 PA5JS

SWITZERLAND

11011525 HB9SIX 549 JN47QF>JO50UF B DK2EA
11101513 HB9SIX 539 JN47QF>JO50UF B DK2EA
11111717 HB9SIX 549 TR 374 50.058 B DK2EA
11131016 HB9SIX 559 TR 374 50.058 B DK2EA
11200949 HB9SIX 319 JN47QF>JO50UF B DK2EA
11211512 HB9SIX 319 JN47QF>JO50UF B DK2EA
11261424 HB9SIX 219 JN47QF>JO50UF 374 DK2EA
11271412 HB9SIX 319 JN47QF>JO50UF 374 DK2EA
12011406 HB9SIX 49 JN47QF>JO50UF 374 DK2EA
12021640 HB9QQ 59+ JN47KJ 931 50.150 G4FUE
12031052 HB9SIX 319 JN47QF>JO50UF 374 DK2EA
12031635 HB9QQ MS PIERRE 859 50.230 J G4IGO

UKRAINE

11011043 UTSG S5>JN53 2086 50.084 B IK5YJY
11011045 UTSG 559 KN66>JN54 1723 B IW4BET
11040721 UT7U WEAK 50.117 E28CQ
11101801 UUS5IX 589 KN74AL TR 1183 B R26BU
11130900 UTSG 1842 50.082 DL5ZM
11130923 UTSG KN66LS 1972 50.084 B HB9QQ
11130954 UTSG 2280 50.084 B IK1EGC
12021704 UTSG 599 KN66>JN54 1723 B IW4BET

WALES

11061127 GW6TEO IO71>JO22 692 50.230 PF7M
11061156 GW6TEO J76M TR 333 50.235 J GOCHE
11222024 GW3XRM CQ 462 50.156 ET7BMB
12021625 GW8ASD IO83>JN64 1531 .150 IK4DCX

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BAHAMAS

11062336 C6AFP FL16>EM89 1548 50.062 B WZ8D
12021232 C6AFP 419 FL16>EM89 1548 B WZ8D
12040311 C6AFP FL16 1651 50.062 B WZ8D

BARBADOS

11031749 8P6SH GK03 242 50.110 FM5JC
11032311 8P6SH DEAN GK03 242 50.112 FM5JC
11032322 8P6SH 57 FLUTTER 4791 .110 PP5XX
11042346 8P6SH CQ 4791 50.110 PP5AR
11111631 8P6SH DEAN GK03 242 50.110 FM5JC
11190008 8P6QA 57 >GG52 4684 50.110 PP5JD
11212241 8P6SH DEAN GK03 242 50.110 FM5JC
11212309 8P6SH 4791 50.110 PY1SX
11212310 8P6SH 59 >GG46 4204 50.110 PY5EW
11222139 8P6SH DEAN GK03 242 50.110 FM5JC
11262323 8P6SH 4791 50.110 PP5BJ

CANADA, Eastern

11040320 VE2XK 52A 730 50.125 K9MU
11040329 VE3GIB FN25>EM89 934 50.125 WZ8D
11051427 VA3ARD 59 FN03>EM70 1539 K4RX
11051516 VE3GIB 599 FN25 50.128 K4RX
11051659 VE3GIB FN25>EN44 1260 .125 K9MU
11070336 VE3GIB FN25>EM89 934 50.125 WZ8D
11160104 VEPZ 57 FN85>FM08 1529 W4TJ
11160106 VEPZ FN85>EM80 1713 50.135 N4DB
11201228 VE2SO 59 FN48>EM89 1383 WZ8D
11201231 VE2DPO 59 FN25>EM89 934 WZ8D
11230204 VE2XK FN07>EM89 945 50.145 WZ8D
11230211 VE3GIB FN25>EM89 934 50.145 WZ8D

11230232 VE2TH FN46>EM89 1245 50.145 WZ8D
11250345 VE2TH FN46>EM89 1245 50.130 WZ8D
11250357 VE2XK FN07>EM89 945 50.130 WZ8D
11280406 VE2TH FN46>EM89 951 50.145 WZ8D
12031852 VE3GIB FN25>EM89 934 50.125 WZ8D
12032204 VE1YX 58>EN80 552 50.125 W08PTB
12040024 VE1YX 59 1787 50.125 KI4CXZ

CANADA, Western

11032216 VE4ARM 51A 1180 50.019 B K9MU
11032257 VE4SPT EO26>EN44 1363 .025 B K9MU
11051445 VE6WD LOUD>EM60 3301 50.145 KB4ET
11201703 VE7FG CO83>CN84 Es B KC7OTV
12020541 VE4ARM 51A EN09>EN44 821 B K9MU

DOMINICA

11182346 J79AG 5059 50.110 PP5AR
11182351 J79AG ANDREAS FK75FJ 497 FM5JC
11182353 J79AG FK75IJ 5185 50.110 PP5JD
11182358 J79AG 59+ 5059 50.110 PY2VA
11190006 J79AG 5059 50.110 PY2YW
11192013 J79AG 59 5059 50.110 PP5XX
11232336 J73SK CQ 5059 50.110 PP5AR

GUADELOUPE

12020012 FG5GP 5166 50.110 PY2SRB

MARTINIQUE

11020110 FM1HM 59 >GG46 4362 50.110 PY5EW
11032323 FM1HM 57 4951 50.110 PP5XX
11040035 FM5BW CQ 4951 50.110 PP5AR
11092326 FM1HM 4951 50.110 PY1SX
11092328 FM1HM 59 4951 50.140 PP5JD
11122352 FM5JC 559 4951 50.110 PR8ZX
11152325 FM5BW 59 4951 50.110 PP5JD
11172328 FM5JC 4951 50.110 PP5AR
11182355 FM5JC 4951 50.110 PP5AR
11192302 FM1HM 59 4951 50.110 PP5JD
11192308 FM5JC 59+ 4951 50.110 PP5XX
11240100 FM5JC 59+ 4951 50.110 PP5XX
11240105 FM5JC CQ 4951 50.110 PP5XX

MEXICO

11240312 XE2HNB DL90SP 874 50.110 XE1ZVO

PRINCE EDWARD IS.

11151535 VY2SS FN10>FN76 1173 50.125 W3MEL
11160056 VY2GIB FN86>EM79 1942 .135 W8IF
11201242 VY2SS 599 FN76>FM08 1448 W4TJ

PUERTO RICO

11012302 WP4JJ CQ 5571 50.110 PP5AR
11012323 WP4KJJ STRONG>GF49 5710 PP3KN
11012327 WP4NEG CQ 5571 50.110 PP5AR
11012349 WP4NEG 54>GG87 5251 50.110 PY1WX
11030042 WP4LUW CQ DX 5571 50.110 PP5AR
11032329 NP3H 59 5571 50.110 PP5XX
11032331 WP4NIX 57 5571 50.110 PP5XX
11062254 WP4NIX CQ 5571 50.110 PP5JD
11062300 NP3H w/ PP5AR 5571 50.110 PP5JD
11062301 NP3H CQ 5571 50.110 PP5AR
11092322 K4YI 5571 50.110 PY1SX
11092327 WP4NIX 5571 50.110 PY1SX
11100001 WP4NIX 5571 50.110 PP5JD
11122353 WP4KJJ 59+ >GG53QW 5337 PP5XX
11230045 WP4KJJ 59>GF15 5986 50.110 CX4CR
12012320 WP3UX CQ 2625 50.110 N3DB
12012328 WP3UX 53 VA 1806 50.110 K4AU
12020036 WP3UX 2625 50.110 N3DB

ST BARTHELEMY

11242335 FJ5DX 59 5331 50.110 PP5JD
11242336 FJ5DX 5331 50.110 PP5AR
11262349 FJ5DX 5331 50.115 PP5BJ
11270016 FJ5DX WIL 5331 50.130 PY3CQ
11292329 FJ5DX RTTY 5331 50.150 R PY3OG
11292354 FJ5DX 599 PHIL 5331 50.150 R PY2SRB
11300055 FJ5DX PHIL SSB 437 50.150 H WP3UX

ST KITTS & NEVIS IS.

11100324 V44KAI 519 437 50.055 B WP3UX
11152332 V44KAI 5331 50.055 B PP5JD
11172331 V44KAI 529>GG66 4878 50.055 B PY2OC

United States, W1

11010255 W1/K7BV 55 FN31>EM89 873 WZ8D
11040105 K1SIX FN43>FN46 333 50.125 VE2QRA
11050353 W1/WA2SPL FN35>EM89 1055 WZ8D
11051512 N1ARN FN34>EM70 1877 50.125 K4RX
11061358 W1/JJ 59 FN41>EM70 1750 .150 K4RX
11070009 K1TOL 559 8417 50.110 PY1NB
11070346 W1/K7BV FN31>EM89 873 .125 WZ8D
1111439 W1/JJ 579 FN41>FM08 758 W4TJ
1120117 K1SG EME 4969 50.195 J G4IGO
11212415 W1/JJ 559 FN41>EM70 1750 K4RX
11212634 N1YTN FN54>FM08 1065 50.135 W4TJ
11301552 K1SG 21DB EME 6063 50.196 J M0BCG
11313128 W1/JJ FN41>EM89 1037 50.135 WZ8D
11313426 W1/JJ 559 FN41>EM70 1750 K4RX
11313916 K1BLK FN10>FN31 353 50.125 W3MEL
11312256 K1SG CQ EME J765 6063 .194 M0BCG
11161150 K1BLK FN31>EM89 873 50.125 WZ8D
11161158 K1NDF FN42>EM89 1059 50.125 WZ8D
11161204 K1GUN 59 FN53>EM89 1245 WZ8D
11161211 K1GUN 391 50.130 WE2F
11161216 K1GUN 55 FN53>FN35 430 .130 VE2DC
11170025 K1KVA M >EM90 1785 50.125 KI4RO
11170238 W1/K7BV FN31>EM89 873 .260 WZ8D
11201216 W1/WA2SPL FN35>EM89 1055 WZ8D
11201234 N1YTN FN54>EM89 1281 50.145 WZ8D

11201257 K1NFE FN31>EM89 873 50.125 WZ8D
11201326 W21V 55 FN31>FM08 609 .125 W4TJ
11201330 K1BLK 55 FN31>FM08 609 W4TJ
11212101 K1TTT 59 FN32>EM89 902 .125 WZ8D
11212112 K1TTT 634 50.125 VA2MW
11212231 W1/K7BV FN31>EM89 873 .125 WZ8D
11240125 K1BLK FN31>EM89 873 50.135 WZ8D
11240445 W1/WA2SPL FN35>EM89 1055 WZ8D
11241208 W1/WA2SPL FN35>EM80 983 N4DB
11241556 W1/WA2SPL 1078 50.125 WZ8D
11251416 W1/WA2SPL 559 MS FN34>EN82 K8KS
11251422 W1/WA2SPL 449 FN34>EM70 1877 K4RX
11262000 W1/K7BV 441 FN31>EM60 1750 N5BO
11271549 K1BLK 59 FN31>EM70 1627 K4RX
11291339 W1/JJ EME 4969 50.203 J G4IGO
12010332 K1BLK FN31>EM89 873 50.130 WZ8D
12010340 N1TOP FN32>EM89 902 50.130 WZ8D
12031309 W1/JJ 599 CW 1987 50.125 N4DB
12031337 W1/JJ 59 FN41 1012 50.145 WZ8D
12031457 W1/NYV 59 FN42>EM70 1824 K4RX
12040042 K1BLK >EM90 1785 50.130 KI4RO
12040049 W21V FN31>EM90 1417 50.135 KI4RO
12041333 W1/WA2SPL FN35>EM80 983 N4DB
12041353 W1/WA2SPL 58 FN35>EN70 1121 KB9YAO

United States, W2

11050151 K2DRH 55 EM89>EN41 711 .135 WZ8D
11050345 N2VUG 55 FN20>EM89 690 .125 WZ8D
11051444 K2ATK FM29 646 50.125 K1TTT
11130148 K2DRH EM89>EN41 711 50.135 WZ8D
11132044 W2ZQ FN10>FN20 169 50.130 W3MEL
11142233 K2EB FN32 274 50.125 K1TTT
11212056 W2YL FN21 465 50.125 K1TTT
11232013 W2YL 391 50.125 K1TTT
11252121 W2DL 57 FN21>EM70 1515 .125 K4RX
11260639 W2YL FL21>EM89 2140 50.125 WZ8D

United States, W3

11010105 K3BMDY FM28>EM89 699 50.135 WZ8D
11032249 WB3ANT LOUD 662 50.125 K1TTT
11040050 N3AUS 57 EM89>EN91 279 .125 WZ8D
11040104 K3TJK 539 FM28>EM89 699 WZ8D
11040259 W3/W1PL 53 FM09>EM89 343 WZ8D
11060308 W3CMP FN10>EM89 522 50.135 WZ8D
11061433 N3DB FM18>EM70 1151 50.125 K4RX
11062249 N3DB 8197 50.110 PY1NB
11062323 N3DB 55>GG53QW 7960 50.110 PP5XX
11070316 N3DB FM18>EM89 530 50.135 WZ8D
11122205 K3YTR FN10>FN20 169 50.125 W3MEL
11131759 K3LFD FN10>FN20 169 50.125 W3MEL
11131920 WB3ANT 59 FN10>FN21 201 W3MEL
11151618 K3KAC FN10>FM19 111 50.125 W3MEL
11201521 K3KYR 579 FN24>EM70 1785 K4RX
11212102 K3A3VW 55 FN00>EM89 358 WZ8D
11240443 WB3ANT FN21>EM79 873 50.125 W8IF
11241454 W3CMP 55 FN10>EM70 1325 K4RX
11270043 W3DQG FM28>EM60 1412 50.072 B N5BO
11270105 N3LL EN90>EL89 1236 50.068 W3HH
11271425 W3HH EL89>EN44 1810 50.061 B K9MU
11271608 W3HH 559 EL89 1338 50.062 B N3DB
11291442 W3VD FM19>EL89 1239 50.064 B W3HH
11291451 WB3ANT FN21>EL89 1516 .125 W3HH
12012050 W3DQG AT NOISE 2625 50.070 B NP4BM
12012318 N3DB 52 DAVE 2625 50.110 WP3UX
12022019 W3?? 662 50.125 K1TTT
12031547 W3/NL7XM FN20>EL89 1422 B W3HH/4
12040250 N3LL EN90>EL89 1236 50.069 B W3HH

United States, W4

11040047 W4TJ FM08>EM89 363 50.135 WZ8D
11050059 W4TJ FM08>EM89 363 50.135 WZ8D
11050116 KG4WOA FM08>EM89 363 50.135 WZ8D
11050318 W4TJ FM08>EM89 363 50.135 WZ8D
11051449 W4HFN PSK31 1647 50.290 KT2Q
11051522 KG4QW EM75>FN42 1435 .125 WAINYV
11051536 N4JDB EM64>FN42 1647 50.140 WAINYV
11061329 W4TJ 54 FM08>EM89 363 .135 WZ8D
11061331 KG4BZB 59 1987 50.125 W1J
11061400 W4/NS12 EL99>FM42 1699 .125 WAINYV
11061427 K4AHO 529 1383 50.077 B N3DB
11061436 W4TJ 579 FM06>EM70 868 .125 K4RX
11061437 W4??? ALABAMA 1987 50.125 K1TTT
11061438 K4RX 579 FM70>FM08 1044 W4TJ
11061439 K4CMV/M EL89>FN42 1799 WAINYV
11061441 W4ABP EM50>FN32 1949 .125 K1TTT
11061450 K14FD EM90>FN42 1603 .125 WAINYV
11061453 K4DES EV EL87>FN32 1896 .125 K1TTT
11061456 K4DES EV EL87>FN42 1989 .125 WAINYV
11061608 N4XUX/M EM90>FN42 1603 .125 WAINYV
11061724 K4XQ CQ CW 1383 50.110 N3DB
11070046 KG4HOT 55 FM07>EM89 412 WZ8D
11070130 K14AQO FM03>EM17 1685 .125 H NOJK
11071725 W4CHA 559 EL88>EN81 1435 B K8WB
11071815 W4CHA 429 QSB 1383 50.080 B N3DB
11080147 W4TJ FM08>EM89 363 50.130 WZ8D
11112307 KE4SIX ES 1544 50.063 B K9MU
11123233 W4AVUT IN>OUT 1544 50.125 K9MU
11124000 W4TJ 53 FM08>EM89 363 .145 WZ8D
11131329 W4TJ 54 FM08>EM89 363 .135 WZ8D
11180109 N4KOB CW 55 1346 50.125 K8LEE
11180111 W4JGG CW TN 1346 50.124 K8LEE
11191521 KB4WBO 599 EL96>FM08 1347 W4TJ
11201200 W4TJ FM08>EM89 363 50.125 WZ8D
11201255 N4AVV 59 FM03>EM89 756 .125 WZ8D
11201301 AC4TO EM70>EM89 1016 50.125 WZ8D
11202053 K4KJZ EM72>EM70 222 50.125 K4RX
11210011 W4CHA 559 EL88 2358 50.079 B NOJK
11221242 W4WA EM84>EM89 555 50.125 WZ8D
11240051 W4TJ FM08>EM89 363 50.135 WZ8D
11240357 KG4HOT 57 FM07>EM89 412 WZ8D
11241303 W4WA EM84>EM89 555 50.125 WZ8D
11241310 K4CEB EM95>EM89 478 50.135 WZ8D
11241505 K4RX 569 Sc EM70>EN82 1345 K8KS
11241520 WB4TJO EM60>EM89 1064 .125 WZ8D
11251425 K4RX 599 MS/Es EM70>EN82 1126 K8KS

11252242 KT4JA 1987 50.125
11252256 KT4JA EL97>FM19 1384 50.125
11261236 W4TJ FM08>EM89 363 50.135
11261629 WB4TJO EM60 M/S 1168 50.130
11261634 N4KT EM78>EM89 205 50.125
11262235 KE4KVV 57 1987 50.125
11262350 KF4PBO EM90>FN42 1603 .130
11270001 N4AVV FM03>FN42 1220 50.125
11270019 NY4PD 1647 50.140
11270037 WB4GMD EM91>FN42 1508 .125
11270045 NY4PD S9 1383 50.140
11270054 W4CHA 599 EL88>EM89 1222 B WZ8D
11270109 N4FNG 55 EL87>EM89 1334 WZ8D
11270130 K4AHO 559 EL98>EM89 1236 B WZ8D
11270142 K4ADR 55 EL96>EM89 1457 WZ8D
11270203 W4TJ 55 FM08 1127 50.135
11270210 KG4HOT FM07 1017 50.145
11270326 W4AZR FM08>EM89 363 50.145
11271251 K4RPA EM75>EM84 213 50.125
11271255 W4WA EM84>FM08 570 50.135
11271310 W4TJ FM08>EM89 363 50.145
11271311 AC4TO EM70>EM84 482 50.125
11271356 AC4TO 599 ES 1987 50.125
11271408 NY4PD EL89 1612 50.135
11271417 NY4PD 59 EL89>EN44 1810 K9MU
11271418 AC4TO 58 EM70>EN82 1345 K8KS
11271437 KT4JA 59 1544 50.130 K9MU
11271445 W4CHA 529 EL88>EN44 1914 B K9MU
11271454 W4WA RON EM84>EN44 1305 K9MU
11271525 W4/NJ2F EL96>FN12 1815 .155 K62MHU
11271537 W4RCC 99 EL96>FM08 1347 W4TJ
11271615 W4CHA 539 1383 50.080 B N3DB
11280216 W4TJ FM08>EM89 363 50.145 WZ8D
11282116 W4TJ FM08>EN80 408 50.126 N4DB
11291532 N4NDR 57 1987 50.125 W1JJ
12010310 W4TJ FM08 1127 50.145 WZ8D
12010344 W4TJ FM08>EM89 363 50.130 WZ8D
12012310 W4TJ 51 1806 50.110 WP3UX
12012327 K4AU 52 1806 50.110 WP3UX
12020216 K4QI FM06>EM89 483 50.125 WZ8D
12020227 K4GBB 59 EL95>EM89 1567 WZ8D
12021240 K4CEB 53 EM95>EM89 478 .125 WZ8D
12021815 W4CHA EL88>EM13 1443 50.080 B AA5WH
12021819 W4CHA EM12CX 1677 50.080 B AD5VJ
12021821 KB4TEQ EM73>EM13 1111 .125 AA5WH
12021824 KB4TEQ EM73>DM12 2973 .125 NCWC
12022024 KG4YBI EM12CX 1677 50.125 AD5VJ
12031308 KB4WTG? DISTORTED 1987 .125 K1TTT
12031408 WA4VUT EM50>EM84 716 50.125 W4WA
12031437 W4/WA8LRE FL 50.125 K1TTT
12031458 W4VC EM81>EM89 899 50.125 WZ8D
12031510 N4JJ FM04>EM89 659 50.125 WZ8D
12031609 KD4ESV 1987 50.125 K1TTT
12031642 AC4TO 57 EM70>FM08 1044 W4TJ
12031734 KG4KQI 59>EM20 1371 50.130 W5DN
12031739 WO4DX 59 EM74>EM20 1037 W5DN
12031757 W4CHA 559 EL88>EM17 1641 B NOJK
12031907 W4TJ FM08 1127 50.145 WZ8D
12040105 K4AHO 529 1383 50.077 B N3DB
12040108 W4/W3HH 559 EL89 1338 .061 B N3DB
12040112 K4JEB 50.150 K4NAU
12040116 KG4TJWJ EM81>EM02 1511 .155 AE5B
12040120 K4EEZ EL87>EM02 1635 50.125 AE5B
12040126 WD4MGB EL87>EM17 1716 .130 NOJK
12040134 W4/NJ2F 2516 50.155 NOJK
12040141 WAUDH W/ W7GJ/3 S9 1383 N3DB
12040152 W4/N5BO EM20>EM60 766 .150 K5UO
12040230 KG4IAL 1753 50.130 NSCRO
12040254 W4RCC EL96>EN61 1755 50.135 KB9JCW
12040312 W4CHA EL88 1334 50.080 B WZ8D
12040313 K4AHO 59 EL98 1346 50.077 B WZ8D
12040316 W4TJ 54 FM08 1127 50.145 WZ8D
12040322 KE4KVV 1544 50.150 KB9JCW
12040336 K4DDR 1544 50.150 KC9CTV
12040341 WB4JHS 1544 50.150 KC9CTV
12040352 K14JMH 1544 50.150 KC9CTV
12041241 W4WA EM84>FN21 1046 50.130 K22D
12041254 W4WA 57 EM84>FM08 570 .130 W4TJ

United States, W5

11051402 KB5SSJ EM44 2035 50.125 K1TTT
11051440 K5WBX EM41>FN32 2005 50.125 K1TTT
11051509 KC5PIA EM51>FN42 2005 .125 WAINYV
11051707 W5TFW 59 EM40>EN80 1325 N4DB
11061428 WB5LLI 559 NEW ORLEANS 2271 B N3DB
11070043 K5AB 559 2271 50.060 B N3DB
11070238 W5JLC DM81>EM89 2010 50.135 WZ8D
11111703 W5TDN 55 EM22>EN44 1378 K9MU
11111704 K5JF 55 1627 50.125 K9MU
11112314 WB5LLI 549 Es 1627 50.060 B K9MU
11120117 W5WVO 53 DM65>EL17AX Es W5UWB
11130000-W5s NM K6QXY
11130018 W5IF 55 EM14>EM89 1359 .125 WZ8D
11141613 KC5DDK DN26 1624 50.125 W3UR
11150248 K5AB EM01>DN70 1136 50.060 B KOGU
11191507 W5HEZ 50.125 W5TFW
12002047 K5GW EM13>EM89 1415 50.195 WZ8D
1201556 AD5D EM46>EM89 775 50.125 WZ8D
12015557 AD5D 57 EM46>FM08 1080 .125 W4TJ
11301628 W5VHF 559 EM24 2327 50.125 W1JJ
11301633 W5VHF 55 EM24>FM19 1688 H AK3E
11301651 KE5FTW 53 EM46>FM19 1269 H AK3E
12021737 W5RP DM91>EL89 1736 50.073 B W3HH
12021809 K5AB EM01>DN70 1136 50.060 B KOGU
12021834 WB5KIA >DM12 1718 50.145 N6CW
12021852 AD5D 57 EM46>EL17AX W5UWB
12021853 KE5FTW 55 EM46>EL17AX W5UWB
12021859 NR50 59 EM17>DM33 1512 .125 NOJK
12021906 W5RP 599 DM91>EM89 1851 B WZ8D
12021932 KSACR 1337 50.130 K7FED
12021943 K5NDL 1337 50.125 K7FED
12021950 WB5KIA EM13>EM84 1294 .125 KG4BFR
12022042 W5AP 1337 50.125 K7FED
12031359 AD5D 58 EM46>FN30 1624 .145 AA2DR
12040104 WB5KIA FM13>EM90 503 50.145 K14RO
12040123 WB5KIA EM13>EM84 1294 .145 W4WA

12040132 KD5RPE DM84>EM90 2105 .135 K14RO
12040136 W5/W3XO EM90>EM84 1562 .175 W4WA
12040148 W5YFR 599>FL 1753 50.096 K14FIA
12040157 K5FJR EL17>EM84 1542 50.125 W4WA
12040210 KD5SDQ EM10>EM90 1531 .125 K14RO
12040225 KC5OLC EM10>EM90 1531 .140 K14RO
12040231 N5BO EM60>FN42 1949 50.125 WAINYV
12040234 WB5LLI 569 2271 50.060 B N3DB
12040239 N5BO EM60 1431 50.135 N3DB

United States, W6

11100327 WA6TMJ 56 EN52>EM89 603 WZ8D
11121528 N6NB DM055B>CM890B 587 .069 B WA6FXL
11130133 KOGMU 52 DM16>DN05 1014 W7BX
11140039 K6FV CM87>DN70 1587 50.068 B KOGU
11212302 KA6AKH 53 FM18>EM89 530 WZ8D
12140400 KA6AKH FM18>EM89 530 50.135 WZ8D
12160004 K6LIG DM12>EL17AX Es W5UWB
12160010 K6IEF DM12>EL17AX Es W5UWB
12021835 KOGMU DM16>EM13 1848 50.140 AA5WH
12021838 WA6ICV 54 DM25>EL17AX W5UWB
12021856 KOGMU LOUD>EM12CX 2336 .125 AD5VJ
12021911 AA6DD EM12CX 2336 50.125 AD5VJ
12021955 K6IAH DM34>EM13 1477 50.125 N0RQ
12022001 WA6TFZ DM15>EM13 1842 .125 N0RQ
12022003 WA6TFZ LOUD>EM12CX 2336 AD5VJ
12030402 K6NHK CN85>DM13 1428 50.125 N7DB
12030455 K6LIG 59 DM12>CN85 1534 N7DB

United States, W7

11080156 KD7SUU DM33 1360 50.125 K5CM
11120108 WA7PFO 53 DM54>EL17AX Es W5UWB
11130000-W7s A2,MT K6QXY
11130021 W7CNK 59 EM15>EM89 1310 WZ8D
11140000-WA7X B K6QXY
11140049 K17JA CN85>DM33 1583 50.125 K7ZD
1201706 KCTOTV CN84>CN88GT H VE7SKA
1201709 KCTOTV CN84>CN88 VA7HV
1201739 NM7D DM37>EL89 2905 50.078 B W3HH
12021828 W7RV 13 DM43 1178 50.155 AA5WH
12021830 WA7ADK 55 >EL17AX W5UWB
12021832 W7RZ 53 DN31>EL17AX W5UWB
12021841 KCTBPI 56 DM35>EL17AX W5UWB
12021849 K7ZD 1145 50.140 NOJK
12021855 KF7GG DM33>EM17 1512 50.125 NOJK
12021902 KCTBPI LOUD>EM12CX 1438 AD5VJ
12021925 W7RZ DN31>EM17 1440 50.125 NOJK
12021940 W7G/M W/ K3TKJ 3362 50.125 N3DB

United States, W8

11010112 KBNNY EN82>EM89 333 50.135 WZ8D
11010134 KB8Q 52 EN82>EM89 333 .135 WZ8D
11032228 N8CJQ AU GREG 353 50.125 K9MU
11060225 W6IF EM79 203 50.130 WZ8D
11061451 WA8LER FLA 50.135 K1TTT
11080430 WZ8D CW 507 N3DB
11090029 WZ8D 55 1078 50.135 W1JJ
11131429 WZ8D 559 EM89>EM70 1016 K4RX
11140237 WZ8D EM89>EN44 862 50.125 K9MU
11160059 W8IF 59>FN86 1739 50.135 VY2GIB
11160101 KC8ZWS 59>FN86 PBI 1739 VY2GIB
11161159 WZ8D 701 50.125 AA2DR
11181409 W8IF 57 EM79>FM08 530 .135 W4TJ
11182116 WZ8D 57 EM89>FM08 363 .145 W4TJ
11190050 N8CJQ EN84>EN44 634 50.125 K9MU
11191446 N8CJQ 579 EN84>EM70 1566 K4RX
12012038 WA8FTA 59>FM03 855 50.125 N4AVV
12013353 WA8FTA 59 EN52>FM08 954 W4TJ
12121240 N8CJQ EN84>EM89 555 50.125 WZ8D
12122258 WZ8D 59 EM89>FM08 363 .140 W4TJ
12130225 WZ8D SC JOHN 353 50.145 K9MU
12141300 WA8LRE EM90>EM89 1016 .120 WZ8D
12141506 K8KS 569 EN82>EM70 1345 K4RX
12145112 WZ8D 559 1346 50.125 K4RX
12152424 K8KS 599 EN82>EM70 1345 K4RX
12171627 K8EB EN73>EM84 1015 50.125 W4WA
12021253 WZ8D 559 EM89>FM08 363 .067 B W4TJ
12021353 W8IF 57 EM79>FM08 530 .145 W4TJ
12021900 WZ8D 59+ EM89>EL17AX W5UWB
12031247 K8MMX 57 EN91>FM08 374 .125 W4TJ
12031347 WZ8D 57 EM89>FM08 363 .125 W4TJ
12031445 N8CJQ EN84>EM84 111 50.125 W4WA
12031704 WZ8D EM89>EL89 1111 50.067 B W3HH/4
12031708 K8PLF EN81>EL89 1334 50.074 B W3HH
12031713 K8UK EN82>EL89 1445 50.062 B W3HH/4
12031903 WZ8D 50.145 W8GEX

United States, W9

11051329 W9WV EM69 INDY 1059 50.068 B AA2DR
11201242 K9R0D 59 DM77>EM53 1512 KD5IKG
11130026 KC9GYK EM68>EM89 363 50.125 WZ8D
11181423 W9ZIH EN51>EN44 371 50.125 K9MU
12012429 WA9LRE EM90>EM89 1016 .120 WZ8D
12130221 K9MU EN44>EM89 862 50.145 WZ8D
12152212 WR9L EN61>FN21 998 50.077 B K22D
12152346 KB9ZTF EN53>EL98 1814 .125 NW5E
12160706 W9IXV EM67>EM89 412 50.125 WZ8D
12021843 K9AXA 59 EM69>EL17AX W5UWB
12031301 WR9L 599 ES 1340 50.077 B W1JJ
12031304 W9WV 599 1340 50.068 B W1JJ
12031310 KB9UMI EM70 1980 50.125 K1TTT
12031322 NR9RG 59 EN70>FN30 1013 AA2DR
12031329 NR9SD 59 EM58>FN30 1388 AA2DR
12031334 KB9PJL 59 EN44>FM08 1199 W4TJ
12031400 KA9CFD 59 EN40>FM29 1325 W5KI
12031403 KA9CFD 59 EN40>FM30 1519 AA2DR
12031857 KB9JCW EN61>EN80 353 50.125 N4DB
12040327 K9NMV 50.150 KC9CTV
12040338 KC9CTV EN61>EL98 1544 .150 K4DDR

United States, W0

11040252 KOVUY 59 EM48>EM89 699 .125 WZ8D
11050122 KOVUY 59 EM89>EM48 699 .135 WZ8D
11051325 KOVUY 59+ EM48 1421 50.125 AA2DR

11060221 KOKKO EM48>EM89 699 50.130 WZ8D
11060223 KOVUY EM48>EM89 699 50.130 WZ8D
11060224 NOAFT EM48>EM89 699 50.130 WZ8D
11070308 KOVUY 59 EM48>EM89 699 .135 WZ8D
11090042 KOVUY EM48>EM89 699 50.135 WZ8D
11090325 KOMN EN43>EN44 111 50.125 KC9CECI
11100315 KOVUY 59 EM48>EM89 699 .125 WZ8D
11103232 KOVUY EM48>EM89 699 50.130 WZ8D
11111700 W0BORM EN10>EN44 662 50.060 B K9MU
11120119 KCOMEA 57 DM79>EL17AX Es W5UWB
11120127 W0ID 57 DM78>EL17AX Es W5UWB
11120133 W0/K9RD 58 DM77>EL17AX Es W5UWB
11120334 NOLL EM09>EM89 1370 50.077 B WZ8D
11121418 KOVUY 55 2842 50.125 W1JJ
11121433 KOVUY 57 EM48>EM70 1044 K4RX
11130000-W0s CO K6QXY
11130030 KOPAM EM18>EM86 1849 50.135 K4WS
11130038 KOPAM EM18>EM89 1213 50.135 WZ8D
11140000-W0UR, W0s CO B K6QXY
11140211 KOVUY 59 EM48>EM89 699 .125 WZ8D
11141246 KOVO 599 EM07>EM89 1407 WZ8D
11141247 NOLL 559 EM09>EM89 1370 B WZ8D
11141252 KOVUY 59 EM48>EM89 699 .125 WZ8D
11151947 KOVUY 59 EM48>EM89 699 .125 WZ8D
11161209 KOVUY 59 EM48>EM89 699 .125 WZ8D
11181419 KOVUY 55 EM48>FN10 1220 W3MEL
11182104 KOVUY 59 EM48>EM89 699 .130 WZ8D
11192244 KOVUY 59 EM48>EM89 699 .135 WZ8D
11200303 KOVUY 59 EM48>EM89 699 .130 WZ8D
11212238 KOVUY EM48>EM79 530 50.140 WZ8D
11221442 KOKP > EM02 946 50.073 B AE5B
11230135 KOVUY 59 EM48>EM89 699 .145 WZ8D
11231249 KOVUY EM48 1213 50.130 WZ8D
11231255 KOVUY 59 EM48>EM89 699 .125 WZ8D
11252206 NOLL >FN21 2533 50.077 B K22D
11252208 W0BORM EN10>FN21 1844 .060 B K22D
11252238 W0WKS EM17 1948 50.125 K22D
11260126 KOVUY 52 EM48 BSC 150' .125 WZ8D
11260646 NOLL EM09>EM89 1370 50.077 B WZ8D
11260704 KOVUY 59 EM48>EM89 699 .125 WZ8D
11271205 KOKP EN36>FM08 1448 50.073 B W4TJ
11301629 K0XXX 58 EM46 1903 50.125 W1JJ
11302042 KOVUY EM48 1213 50.145 WZ8D
12021736 KOEC 559 ES 1535 50.068 B K9MU
12021742 W0UR 59 DM79>EN44 1281 K9MU
12021744 W0MTK DM59>EN44 1583 50.065 B K9MU
12021748 W0MTK/M 55 BILL 1535 50.125 K9MU
12021814 KOVO EM07>DM12 1727 50.079 B N6CW
12021908 KOVO >DM12 1328 50.079 B N6CW
12021920 KOAB EM01>DM12 1698 50.060 B N6CW
12031355 KOVUY 59 EM48>FN30 1557 AA2DR
12031459 W0ANH EN47>EM84 1591 50.135 W4WA
12031829 KCOHFL EM17>EM48 537 50.126 KM0A
12031831 NOLL LARRY 2516 50.125 K4KWK
12040139 NEOP EM04>EM90 1742 50.150 K14RO

Reports of Oceania

AUSTRALIA, General

02040538 VK TV VIDEO >PM96 46.172 V JH1WHS
12160529 VK/VIDEO S5 46.24 V JG3LEB
12180441 VK/VIDEO 46.172 S9,46.24 S7 V JG3LEB
11300300 VK/VIDEO S7 46.24 V JG3LEB
12020233 VK TV & 0424 >PM96 46.172 V JH1WHS
12020424 VK TV AUDIO >PM96 51.672 F JH1WHS

Australia-New South Wales

11300006 VK2BA 7453 50.130 VK1ZQR

Australia-Victoria-VK3

11280529 VK3DUT SSB 8139 50.110 JG3LEB
12010322 VK3XQ CQ CW 8139 50.130 JG3LEB
12010351 VK3XQ 8139 50.130 JA3WFG
12020429 VK3DUT >PM96 50.120 S JH1WHS
12020435 VK3DUT CQ SSB 8139 50.110 JG3LEB
12020445 VK3DUT CQ 8139 50.110 JG3LEB

Australia-Queensland-VK4

11050325 VK4RGG >QMO5 50.058 B JA1VOK
11050330 VK4WS >QMO5 50.110 C JA1VOK
11050350 VK4WS 59 6257 50.120 JE2XBY
11050354 VK4RGG 539 6257 50.058 B JE2XBY
11090520 VK4RGG >QMO5 50.058 B JA1VOK
11090534 VK4BLK >QMO5 50.110 S JA1VOK
11090540 VK4BLK >QMO5 50.110 S JA1VOK
11090543 VK4BLK 6257 50.110 JR2HCB
11090612 VK4BLK CW CQ 6257 50.111 JR2HCB
12020431 K4WRTN >PM96 50.125 S JH1WHS
12020434 VK4WS CQ SSB 6257 50.110 JG3LEB
12020437 VK4WS >PM96 50.125 S JH1WHS
12020438 VK4ZQ >PM96 50.125 S JH1WHS
12020442 VK4BLK, 0449 ON PSK31 .125 S JH1WHS
12020444 VK4ZQ CQ 6257 50.110 JR2HCB

South Australia-VK5

11292147 VK5RBV GOOD QF12 490 50.315 VK3SIX
11300000 VK5ZK 55 >RE57 ZL3TY
11300004 VK5UB 55 ZL3TY
12040545 VK5UBC SSB 7785 50.130 JG3LEB

Australia-Tasmania-VK7

12010054 VK7RST 539 >RE66 B ZL3NW
12020448 VK7RST 8693 50.298 B JG3LEB

MARSHALL IS.

11020340 V73SIX >QMO5 50.014 B JH7XRZ
11020340 V73SIX 539 3996 50.014 B JH7XRZ
11020350 V73SIX >PM95 50.014 B JELCUS
11020350 V73SIX >QMO5 50.014 B JA1VOK
11050315 V73SIX >QMO5 50.014 B JA1VOK
11050324 V73SIX 599 3996 50.014 B JH7XRZ

NEW CALEDONIA

11050320	FK8SIX	>QM05	50.080	B	JAI1VOK
11080430	FK8SIX	>QM05	50.080	B	JAI1VOK
11080452	FK8SIX	>PM85 6982	50.080	B	JR2HCB
11080453	FK8SIX	6802	50.080	B	JG3LEB
11090514	FK8SIX	>PM85 6982	50.080	B	JR2HCB
11090520	FK8SIX	>QM05	50.080	B	JAI1VOK
11090535	FK1TK	>PM63	50.110	S	JASCMO
11090535	FK1TK	>QM05	50.110	S	JAI1VOK
11090545	FK1TK	6802	50.110	S	JR2HCB

NEW ZEALAND

11210001	ZL TV VID	S1-5 F2 45.24/5/6	V	K6QXY	
11260528	ZL/VIDEO	S5 8960	45.25	V	JG3LEB
12020424	ZL TV VIDEO	>PM96 45.250	V	JH1WHS	

PHILLIPINES

11020515	DUIEV	>QM05	50.008	B	JAI1VOK
11050640	DUIEV	>QM05	50.014	B	JAI1VOK
11050651	DUIEV	STRONG 3070	50.008	B	JG3LEB

Reports of South America

SOUTH AMERICAN WATERS

11192307	9A3GE/MM	MARTIN	50.110	PP5XX
11192314	9A3GE/MM	G672>TO B.AIRES		FM5JC

ARGENTINA

11012353	LU3HR	54 FF76>FK68 5785		WP4NIX		
11020113	LU3HR	59 1158	50.110	PY		
11062258	LU3EX	559 8539	50.101	N3DB		
11062310	LU4DMX	55 GF05 8539	50.125	N3DB		
11062340	LU3EX	559 GF05>FM08 8373		TAUTJ		
11112250	LU1WDY	599	50.070	B	LU9MRG	
11112322	LU1WDY	51>GF05	50.071		LU3EWZ	
11120157	LU3EWZ	CQ DX 1158	50.110		PR8ZX	
11191359	LU7YS	57 FG72 965	50.110		LU2NI	
11200058	LU3HY	G164>FF78 3445	50.130		PR8ZX	
11202355	LU3EWZ	CQ 5451	50.110		FM5JC	
11202357	LU3EGY	529 5451	50.038	B	FM5JC	
11210001	LU7FA	59 5451	50.110		FM5JC	
11210009	LU3EWZ	1158	50.110		PR8ZX	
11212327	LU3EGY	529 GF05 5451	50.038	B	FM5JC	
11220221	LU6H2W	CQ DX	50.110		LU3HY	
11230001	LU3ET	CQ SSB 5451	50.110		FM5JC	
11230025	LU3EGY	GF05 5952	50.036	B	NP4BM	
11260036	LU2DKX	G164>FF94 3630	130		PR8ZX	
12022356	LU3EGY	517 GF05>FK60 5073			B	YV5LIX
12030021	LU3EWZ	CQ 5112	50.110		YV5LIX	

BRAZIL

11012300	PP5AR	SSB 4951	50.110	FM5JC	
11012339	PY1WX	53 VAL 5571	50.110	WP4NIX	
11012358	PY1FR	52 GG28>FK68 4634		WP4NIX	
11020004	PY1FR	57 FERNANDO 4951	.110	FM5JC	
11020007	PY2MEM	GG67GX 4320	50.110	FM5JC	
11032038	Z21JDR	CQ 6M 4951	50.110	FM5JC	
11032334	PY1NB	59 GG87>FK68 5251		WP4NIX	
11032336	PY2SRB	55 GG58>FK68 4859		WP4NIX	
11032343	PT9PA	55 GG49>FK68 4673		WP4NIX	
11040037	PY2GG	CQ CW 4951	50.105	FM5JC	
11042258	PY1NB	54 GG87>FK68 5251		WP4NIX	
11042307	Z21JDR	51 JEAN 5571	50.125	WP3UX	
11042323	PY2DU	51 5571	50.110	WP3UX	
11042335	PY1NB	55 5571	50.130	WP3UX	
11052309	PR7AB	4951	50.110	FM5JC	
11052311	PY6KR	EDISON HH07 3857	.110	FM5JC	
11062241	PY2XAT	55 8197	50.120	N3DB	
11062251	PY1NB	55/57 8197	50.110	N3DB	
11062259	PY1RO	8197	50.107	W3UR	
11062303	PY2SRB	55 8197	50.126	N3DB	
11062306	PY1RO	8197	50.107	W3UR	
11062322	PY2RML	43 FK68 5571	50.115	WP4NIX	
11062329	PP5XX	8197	50.110	N3DB	
11062342	PY8ELO		50.110	PY1SX	
11082240	PY7LFB	57	50.110	PP5XX	
11082309	PP5CG	LOUD 5571	50.130	WP3UX	
11090102	PY1NB	51 FELIPE 5571	50.110	WP3UX	
11092313	Z21JDR	4951	50.110	FM5JC	
11110107	PY7VG	55 PATRICIO	50.120	PY3KN	
11120055	PY2VA	54 5571	50.110	WP3UX	
11120131	PR8ZX	59+	50.110	PP5XX	
11120146	PT7VB	CLG DX	50.110	PP5XX	
11120152	PT7VB	54 >FK68 5571	50.110	WP3UX	
11122346	PY1RY	CQ 4951	50.110	FM5JC	
11132250	PR8ZX	52>FK68 5571	50.110	WP3UX	
11140006	PP5CG	CQ SSB 4951	50.110	FM5JC	
11140033	PP5NW	CX CW 4951	50.110	FM5JC	
11142331	PP5CG	51>FK68 5571	50.110	WP3UX	
11152155	PP2RON	55 QSB>GF49	50.110	PY3KN	
11160014	PP5JD	52>FK68 5571	50.110	WP3UX	
11160037	PY8ELO		50.110	PY1SX	
11162307	PY6KR	HH07>FK94 3857	50.110	FM5JC	
11172306	PP5AR	51 5571	50.110	WP3UX	
11172311	PY1NB	599 GG87 4556	50.110	FM5JC	
11172312	PY2RRS	599 GG66VK 4526	.110	FM5JC	
11172316	Z21JDR	PAPAGAYO 4951	50.110	B	FM5JC
11172320	PP5AR	4951	50.110	B	FM5JC
11182156	PY2SRB		50.230	PY1NB	
11182251	PY9NM	CQ	50.110	PP5AR	
11190108	PY6LS	59>GG48	50.110	PY2SRB	
11192245	PY6KR	EDISON HH07 3857	.110	FM5JC	
11192309	PR7AR		50.110	PP5XX	
11200015	PW8TR		50.115	PP5JD	
11201809	PY1NB	JT6M -1DB	50.260	J	PY2SRB
11202322	PP5BJ	CQ 4951	50.110	FM5JC	
11202352	Z22TUA	CQ DX	50.110	PR8ZX	
11210018	PW8TR		50.115	Z22TUA	
11210025	PW8TR	LEVI	50.110	PY1SX	
11210055	PW8TR	LEVI FH99 2779	50.110	FM5JC	
11212257	PP5BJ	CQ SSB 4951	50.110	FM5JC	
11220041	Z21JDR	51>FK68 5571	50.110	WP3UX	

11220225	PY8ELO	W/ LU6H2W 1158	.110	LU3HY
11222350	PR8ZX	PEDRO 4951	50.110	FM5JC
11232349	PR8ZX	53>FK68 5571	50.110	WP3UX
11240053	PW8TR		50.110	PP5XX
11240055	PW8TR	CQ	50.110	PP5AR
11240059	PR8ZX		50.110	PP5XX
11240245	PY8ELO	56>GG87ME 875	50.110	PY1WX
11242358	PY1NB	CQ 5571	50.110	NP4BM
11252302	PY6KR	CQ HH07 3857	50.110	FM5JC
11260023	PR8ZX	51 FK68 5571	50.110	WP3UX
11270002	PY1SX	55 MARCO 5571	50.110	WP3UX
11280009	PY3ARZ	CQ	50.110	PP5AR
11280104	PY3OL	JORGE GG40 5008	.110	FM5JC
11280106	PY3KN	CQ 4951	50.110	FM5JC
11302316	PY1AT	53 MARCOS 5571	50.110	WP3UX
11302338	PY1AT	CQ SSB 4951	50.110	FM5JC
12012322	PY2PVT	51 5571	50.110	WP3UX
12020023	PY8ELO	SILVA	50.150	PY2SRB
12030017	PP5AR	CQ DX 4839	50.110	YV5LIX

CHILE

11240102	CE4BJS	55 FF45NO 5535	.110	FM5JC
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COLOMBIA

11120217	HK4CZE	59 4603	50.110	PR8ZX
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CURACAO NETH. ANTILLES

11092334	P22BVU	5040	50.130	PY1SX
11092344	P22BVU	59>GG46 4455	50.110	PY5EW
11092347	P22BVU	57 FK52 5040	50.120	PP5JD
11120015	P22BVU	57>GG53QW 4820	.110	PP5XX
11160028	P22BVU	559 5040	50.110	PP5JD
11160038	P22BVU	5040	50.110	PY1SX

FRENCH GUIANA

11101841	FY7THF	599 GJ35 1329	50.039	B	FM5JC
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GALAPAGOS IS.

11050310	HC8GR	529 5265	50.035	B	PR8ZX
11090119	HC8GR	519 5265	50.035	B	PR8ZX
11210233	HC8GR	529 5265	50.035	B	PR8ZX
11210417	HC8GR	539 5257	50.035	B	YV5LIX
11220151	HC8GR	529 5265	50.035	B	PP5XX

TRINIDAD & TOBAGO

11030122	9Y4AT	54 FK90>GG87 4160		B	PY1WX
11032327	9Y4AT	579 4523	50.015	B	PP5XX
11050222	9Y4AT	559 FK90>GG87 4160		B	PY1WX
11050311	9Y4AT	519 4523	50.015	B	PR8ZX
11062343	9Y4AT	579 4523	50.015	B	PP5JD
11080159	9Y4AT	4523	50.015	B	PP5JD
11092308	9Y4AT	559 4523	50.015	B	PP5XX
11112318	9Y4AT	519 TEP 4523	50.015	B	PP5XX
11112343	9Y4AT	CQ DX 874	50.015		YV4FJO
11122338	9Y4AT	599 TEP>GG53QW 4279		B	PP5XX
11132248	9Y4AT	529 4523	50.015	B	PR8ZX
11142346	9Y4AT	559 4523	50.015	B	PP5JD
11152236	9Y4AT	519 TEP 4523	50.015	B	PP5XX
11152248	9Y4AT	518 >GF49 4681	50.015	B	PY3KN

11152327	9Y4AT	599>GG52RJ 4443		B	PP5JD
11172250	9Y4AT	519>GG66 4075	50.015	B	PY2OC
11172259	9Y4AT	4523	50.015	B	PY1NB
11190016	9Y4AT	559 4523	50.015	B	PP5JD
11200024	9Y4AT	599 4523	50.015	B	PP5JD
11200051	9Y4AT	579 4523	50.015	B	PR8ZX
11220152	9Y4AT	599 4523	50.015	B	PP5XX
11222348	9Y4AT	599 4523	50.015	B	PP5XX
11232350	9Y4AT	WEAK 4523	50.015	B	PP5JD
11240129	9Y4AT	599 >GG54 4208	50.015	B	PY5TP
11240217	9Y4AT	4523	50.015	B	PP5JD
11280116	9Y4AT	4025	50.015	B	ZP6CW
12012355	9Y4AT	599 4523	50.015	B	PP5JD

TRINIDAD & TOBAGO

11192354	9Z4GB	59 4523	50.110	PP5XX
11200049	9Z4BM	FK90>GI64 2359	50.110	PR8ZX
11260025	9Z4GB	FK90>GI64 2359	.110	PR8ZX

URUGUAY

11012312	CX3AN	59 CQ 5464	50.110	FM5JC
11052330	CX4CR	CQ DX >SP 1009	50.110	PY2BRZ
11191356	CX3AN	183	50.100	LU2NI
11302311	CX4CR	59 5464	50.110	FM5JC

VENEZUELA

11050225	YV4AB	529>GG87 4635	50.025	B	PY1WX
11050312	YV4AB	559 4839	50.026	B	PR8ZX
11070031	YV4DYJ	4839	50.110		PY1NB
11070100	YV4DYJ	FK60>GI64 2840	.110		PR8ZX
11090005	YV4DYJ	59>GF15 5160	50.110		CX4CR
11090011	YV4DYJ	4839	50.110		PP5JD
11142341	YV4AB	599>GG87MO 4629	.025		PY1NB
11152330	YV4AB	WEAK 4839	50.025	B	PP5JD
11172317	YV5LIX	4839	50.110		PY1NB
11172334	YV4AB	539 4839	50.025	B	PY2OC
11192355	YV5KG	4839	50.112		PP5XX
11192358	YV5KG	CQ DX 4839	50.112		PY1FR
11200047	YV5TAL	4839	50.110		PR8ZX
11200103	YV5KG	FJ69>GI64 2773	50.110		PR8ZX
11210015	YV5KXE	4839	50.110		PY1SX
11220031	YV5LKD	4839	50.110		PY1SX
11222357	YV4AB	579 4839	50.025	B	PP5XX
11232358	YV5				